



Setting the Standards for Innovative Environmental Solutions

**PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT**  
**WEST FORK RIVER TRAIL PROPERTY**  
**TAX PARCELS 24-03-0008-0023-0000**  
**& 24-03-0008-0140-0000**  
**FAIRMONT, MARION COUNTY, WEST VIRGINIA**  
**BROWNFIELDS ASSESSMENT GRANT NUMBER BF-963604-01-0**

March 2022

Prepared for:

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Setting the Standards for Innovative Environmental Solutions

March 28, 2022

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**Subject: PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT  
West Fork River Trail Property**  
Tax Parcels 24-03-0008-0023-0000 & 24-03-0008-0140-0000  
Brownfield Assessment Grant Number BF-963604-01-0  
Environmental Standards Project Number: 20198730

Dear Mr. Petry:

Enclosed is the Phase II Environmental Site Assessment Report for West Fork River Trail Property. The Phase II Environmental Site Assessment has confirmed impacts from historical activity on the Site.

We appreciate your assistance on this project. If you have any questions or need additional information, please feel free to contact us.

Sincerely,

  
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Staff Geoscientist II

Sincerely,

  
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Encl.

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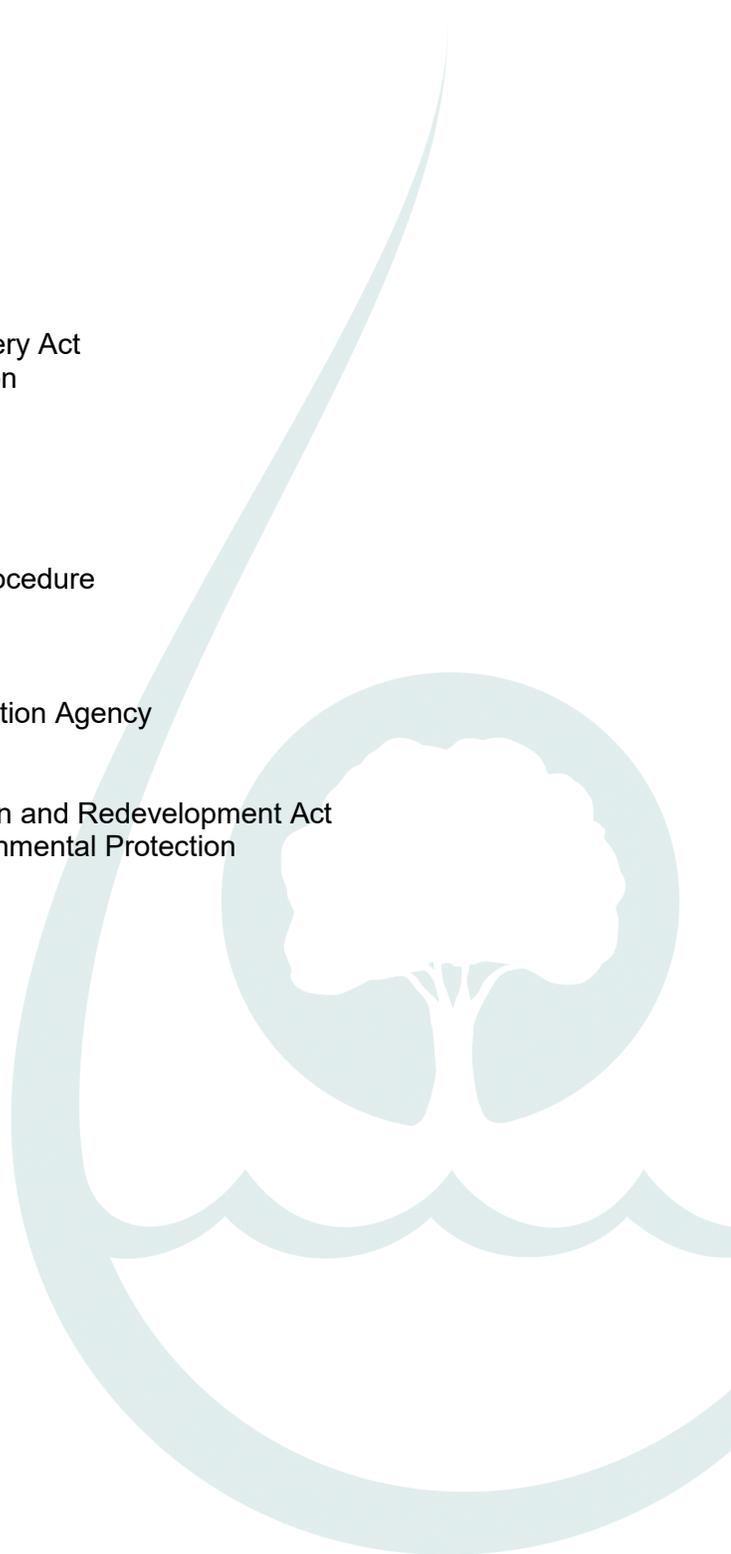
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## **ACRONYM GLOSSARY**

AST	Aboveground Storage Tank
bgs	Below Ground Surface
COC	Contaminant of Concern
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
ESA	Environmental Site Assessment
GPR	Ground Penetrating Radar
LRS	Licensed Remediation Specialist
MS/MSD	Matrix Spike/Matrix Spike Duplicate
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
PPM	Parts Per Million
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RF	Response Factor
RBC	Risk-based Concentration
SIM	Selective Ion Monitoring
SB	Subsurface Soil
SCS	Soil Conservation Service
SPLP	Synthetic Precipitation Leaching Procedure
SS	Surface Soil
SVOC	Semivolatile Organic Compound
USDA	U.S. Department of Agriculture
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
VRP	Voluntary Remediation Program
VRRRA	West Virginia Voluntary Remediation and Redevelopment Act
WVDEP	West Virginia Department of Environmental Protection



## **1.0 INTRODUCTION**

The City of Fairmont (the City) received a \$200,000 United States Environmental Protection Agency (US EPA) Brownfields Assessment Grant (BF-963604-01-0) to complete a community-wide assessment, including the completion of Phase II environmental site assessments (ESAs). The City contracted with Environmental Standards, Inc. (Environmental Standards) to provide support through the brownfield assessment grant process.

Environmental Standards completed a Phase I ESA at the West Fork River Trail Property (Site or Property), located in the City of Fairmont, West Virginia, in July 2021. The Property is comprised of two tax parcels (24-03-0008-0023-0000 and 24-03-0008-0140-0000) owned by Industrial Resources Inc. Phase I ESA recognized environmental conditions (RECs) were identified as follows:

- The former Baltimore and Ohio (B&O) railroad line crossed over the subject Site, around what is now Industrial Contracting Road. Railroad usage is a REC.
- The City reported that the Site was historically utilized for “refuse burning.” The material types and time frame of this usage is unknown, and the presence, use, and/or burning of hazardous or petroleum-based products could not be eliminated as a possibility. This constitutes a REC.
- Two abandoned, unlabeled aboveground storage tanks (ASTs) were observed during the Site reconnaissance on parcel 24-03-0008-0023-0000. The presence of these ASTs, whose original contents are unknown, is a REC.
- The unnatural topography of the Site, including large mounds and uneven, non-native materials observed on parcel 24-03-0008-0023-0000 during the Site reconnaissance indicates the likely presence of introduced fill materials to the Property. This material would be from an unknown source and is a REC.

Contaminants of potential concern (COPCs) associated with the RECs include volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), herbicides, polychlorinated biphenyls (PCBs), and heavy metals.

Based on the findings of the Phase I ESA, a Phase II ESA was recommended.

The owner of the subject Property has allowed access for assessment activities. A copy of the Right of Entry Agreement is provided in Appendix A.

A Phase II ESA Sampling and Analysis Plan (SAP) was submitted to US EPA and approved for implementation in December 2021. The objective of the work proposed in the SAP was to collect information about surface soils, subsurface soils, sediment, and surface water at the Site such that a determination could be made regarding if the RECs identified during the Phase I ESA are in fact RECs at the Site. The data generated can be used to determine whether additional investigations are warranted and what remedial actions, if any, are warranted. The field work was completed in January 2022.

Environmental Standards has prepared this Phase II ESA Report for the City, summarizing the Phase II ESA activities and the results of the laboratory analysis of samples collected.

## **2.0 SITE INFORMATION**

### **2.1 Site Location**

The West Fork River Trail Site is located within the City of Fairmont, Marion County, West Virginia, along Industrial Contracting Road. The location of the Property is depicted in Figure 1, Topographic Map and in Figure 2, Site Location, Aerial Photograph. The Property is two parcels totaling approximately 4.7 acres and is surrounded by vacant land with interspersed residential properties to the north, east, and west. The West Fork River is immediately to the south.

### **2.2 Site Description**

The Property is owned by Industrial Resources Inc., which has a mailing address of P.O. Box 2648, Fairmont, WV 26555. Tax records list parcel 24-03-0008-0023-0000 as residentially zoned and 24-03-0008-0140-0000 as industrially zoned. The subject Site is located along Industrial Contracting Road, which runs parallel to the West Fork River. The Site is currently vacant and wooded, with a moderate and variable grade sloping south towards the river.

<b>Municipality</b>	City of Fairmont
<b>County</b>	Marion
<b>Parcel IDs</b>	24-03-0008-0023-0000 and 24-03-0008-0140-000
<b>Lot Size</b>	24-03-0008-0023-0000 (3.045 acres) and 24-03-0008-0140-0000 (1.64 acres)
<b>Property Owner</b>	Industrial Resources Inc.
<b># of Buildings</b>	None
<b>Additional Improvements and Site Features</b>	None

No buildings are located at the subject Property.

### **2.3 Historical Use of the Site**

The Property is bisected by a roadway, Industrial Contracting Road, that had been a B&O rail line through the 1980s. The Site has been utilized for refuse dumping and burning. Overgrown vehicle parts and construction materials (brick, block, shingles, wood, etc.) throughout parcel 24-03-0008-0023-0000 confirm this historic use.

### **2.4 Previous Environmental Investigations**

Environmental Standards completed a Phase I ESA at the Property in July 2021 for the City. RECs were identified as follows:

- The former B&O railroad line crossed over the subject Site, around what is now Industrial Contracting Road. Railroad usage is a REC.
- The City reported that the Site was historically utilized for “refuse burning.” The material types and time frame of this usage is unknown, and the presence, use, and/or burning

of hazardous or petroleum-based products cannot be eliminated as a possibility. This constitutes a REC.

- Two abandoned, unlabeled ASTs were observed during the Site reconnaissance on parcel 24-03-0008-0023-0000. The presence of these ASTs, whose original contents are unknown, is a REC.
- The unnatural topography of the Site, including large mounds and uneven, non-native materials observed on parcel 24-03-0008-0023-0000 during the Site reconnaissance indicates the likely presence of introduced fill materials to the Property. This material would be from an unknown source and is a REC.

No supplemental documents or records of other environmental investigations were provided by the City or owner to Environmental Standards for review.

## 2.5 Current Use of the Site

The Property is currently unused and wooded.

## 2.6 Site Geology and Hydrogeology

According to the EDR Geotrack<sup>®</sup> Physical Setting Source Summary, the Site lies at an elevation of approximately 908 feet above mean sea level. The topography of the general area and the Property has a southern sloping gradient, towards the West Fork River. The Property is underlain by the Pennsylvanian Virgilian Series, previously referred to as the Monongahela Group. The Virgilian Series consists of sandstones, shales that are often variegated, thin limestones, and some coal deposits. This Series is characterized as a stratified sequence of sedimentary rock.

According to the U.S. Department of Agriculture's (USDA's) Soil Conservation Service (SCS), primary soils in the vicinity of Property consist of Culleoka-Westmoreland silt loams, with minor contributions of Westmoreland silt loams and Urban Land. Culleoka-Westmoreland and Westmoreland silt loams are well drained with a low to moderate available water capacity. Urban land is largely introduced material.

Surface water runoff from the Property is generally sheet flow from north to south across the Site, and an unnamed tributary runs in this configuration through the property, terminating at its confluence with the river. The tributary is intermittent, often being observed to flow only at the upstream, northernmost portion of the Site, with the majority of the streambed being dry. The tributary may progress underground, as there is an area south of Industrial Contracting Road where the water appears to daylight before discharging into the river. The West Fork River, located immediately south of the Property, would be the closest receiving surface water body. Under natural, unconfined aquifer conditions, shallow groundwater beneath the Site would reasonably be expected to flow to the south towards the river. Based on a review of the EDR Radius Map, there are no wetlands located within the Site boundaries.

## 2.7 Selection of COPCs

Based on the known historical operations at the Site, and the findings of the 2021 Phase I ESA, the following COPCs were identified:

- Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver)
- VOCs
- PAHs
- Herbicides
- PCBs



### **3.0 SITE ASSESSMENT INVESTIGATION**

#### **3.1 Objectives**

The objective of the Phase II ESA was to collect information about soils, surface water and sediment at the Site to determine if the RECs identified during the Phase I ESA have impacted the Site.

#### **3.2 Scope-of-Work**

The planned Scope-of-Work included:

- Six surface soil samples, defined as 0-2 feet below ground surface (bgs)
- Six subsurface soil samples, defined as greater than 2 feet bgs
- Three surface water samples collected from the tributary to West Fork River that bisects the Property, upstream of the confluence of the tributary with the river, and downstream of the confluence with the river.
- Three sediment samples that correspond with the surface water sample locations.

Sample locations and rationale for each sample are included on Table 1.

Environmental Standards contracted with Geo-Environmental Drilling Company, Inc. (Geo-Environmental) to provide drilling services. The Geo-Environmental driller on site has West Virginia drilling license number 00587.

Samples were requested to be analyzed for the following COPCs, as summarized on Table 2:

- VOCs in subsurface soils and in subsurface soil leachate via synthetic precipitation leaching procedure (SPLP).
- Metals in surface soil, subsurface soil (and subsurface soil leachate via SPLP), surface water, and sediment.
- Herbicides in surface soil and subsurface soil (and subsurface soil leachate via SPLP) in areas around the historic railroad.
- PAHs in surface soil, subsurface soil (and subsurface soil leachate via SPLP), surface water, and sediment.
- PCBs in surface soil, subsurface soil (and subsurface soil leachate via SPLP), and sediment.

All samples were laboratory analyzed by the Pace Analytical Services, LLC (Pace) network of laboratories, which are WVDEP-certified laboratories located in Greensburg, Pennsylvania and in Beaver, West Virginia.

A summary of the samples collected is provided on Table 1. Copies of the field records and laboratory correspondence are provided in Appendix C. A summary of the analytical testing performed on each sample, as well as analytical deviations from the SAP as described in Section 3.3, is provided on Table 2.

### 3.3 Deviations from the SAP

Due to Site topography and overgrowth of vegetation, only four of the proposed six subsurface soil sampling locations could be accessed. Subsurface samples SB-05 and SB-06 could not be collected. Surface soils were still collected at these locations. Please refer to Figure 3 for the sample locations.

VOCs were added to the surface water samples analytical request. Semivolatile organic compounds (SVOCs), of which PAH is a subset, were added to each of the samples.

Due to laboratory error (see Section 3.8), several samples were unable to be analyzed for the full parameter suite.

The following were not able to be analyzed due to laboratory error:

- Herbicides
- Metals in subsurface soils leachate via SPLP
- PAHs by low-level methodology (8270 selective ion monitoring [SIM]) to achieve lower reporting limits
- PAHs in subsurface soils leachate via SPLP
- PCBs in subsurface soils leachate via SPLP

Samples were able to be analyzed for the following COPCs:

- VOCs in subsurface soils, also via SPLP
- Metals in surface soil, subsurface soil, surface water, sediment
- PAHs by medium-level methodology in surface soil, subsurface soil, surface water, sediment
- PCBs in surface soil, subsurface soil, sediment

### 3.4 Soil Boring Installation

Geo-Environmental employed a hollow-stem auger drilling rig to advance soil borings and collect soil samples on January 11, 2022. Geo-Environmental contacted WV811 to identify public utilities prior to drilling activities.

Four soil borings were advanced at the Site to a depth at which refusal/bedrock was encountered, or to a total approximate depth of 14 feet bgs.

At each boring, soil cores were collected continuously from the ground surface. A decontaminated split spoon was advanced and retrieved every 2 feet. Upon retrieval, the soil cores were visually classified by an Environmental Standards professional in the field according to color, texture, odor, and moisture content. Soil cores and drill cuttings were scanned with a photoionization detector (PID) to evaluate the recovered material for the potential presence and relative concentrations of non-methane volatile organic vapors, if present. The PID was calibrated with 100 part per million (ppm) isobutylene calibration gas.

Black coal fragments were observed in all four soil borings, apparently utilized as part of fill materials during the construction of the railroad and/or Industrial Contracting Road. The property owner, who stopped at the Site during the investigation, confirmed the presence of similar black coal refuse in earthwork he had done on another property to the west, also

along the former rail line. Other fill materials encountered included glass, rock, brick fragments, and various colored sands.

Soil boring logs are provided in Appendix B. Soil boring locations are depicted in Figure 3. The table below summarizes general boring observations.

Soil Boring ID	Total Depth (feet bgs)	Groundwater Encountered	Fill Encountered	Maximum PID Reading	Refusal / Bedrock Encountered
<b>SB-01</b>	6-7	No	Yes	< 1 ppm	Refusal
<b>SB-02</b>	12-14	No	Yes	< 1 ppm	No
<b>SB-03</b>	10-12	No	Yes	< 1 ppm	No
<b>SB-04</b>	12-14	No	Yes	< 1 ppm	No

ppm = parts per million

### 3.5 Soil Sample Collection

At each soil boring location, an Environmental Standards Professional collected one discrete soil sample at the surface (between 0 and 2 feet bgs), and one discrete subsurface soil sample (ranging between 2 and 14 feet bgs). Specific depth intervals were selected using a screening approach biased towards the highest PID reading detected or other indications of potential impact. If no PID readings were observed, other olfactory or visual indications of potential contamination were used to bias the sampling interval, or the subsurface sample was collected at the greatest depth.

The two soil samples were collected per boring for laboratory analysis, with the exception of SB-05 and SB-06. Due to the inaccessibility of the drilling rig, only surface soils were collected at these two locations. Ten total soil grab samples, plus one quality control (QC) sample, were collected for analysis. Surface soil sample SB-05 was selected for the matrix spike/matrix spike duplicate (MS/MSD) sample. A trip blank sample for VOCs was also submitted to the laboratory for analysis.

Figure 3 depicts soil sample locations, denoted SB-01 through SB-06.

Soil samples were immediately transferred into certified-clean, laboratory-supplied bottlenecks using a clean pair of nitrile gloves, or if VOCs, a Terra Core™ sampler. After collection, the containers were properly sealed and immediately placed upright in an ice-cooler pending packaging and shipment to the analytical laboratory.

### 3.6 Sediment Sample Collection

Three sediment samples were collected in tandem with the surface water sampling locations summarized in Section 3.7. The sediment samples (Sed-Trib, Sed-US, and Sed-DS) were collected from the unnamed tributary to West Fork River that bisects the Property, upstream of the confluence of the tributary with the river, and downstream of the confluence with the river, respectively. Only a limited portion of the unnamed tributary was observed to be flowing, at the upper, northernmost portion of the Property. As sediment and surface water samples were to be collected in tandem, the tributary sample (Sed-Trib) location was collected at the northern edge of the Property and reflects potential impacts from upgradient off-site sources.

Please refer to Figure 3 for the location of the sediment sample locations.

The samples were collected from the upper 6 inches of sediment at each location in conjunction with the surface water sampling event. The selected sample was collected from an area with minimal rocks, pebbles, and organic material. Using a scoop, the sediment was skimmed, and the appropriate sample containers filled with the sample material.

### 3.7 Surface Water Sample Collection

Please refer to Figure 3 for the location of the surface water sampling locations, which are located in tandem with the sediment sampling locations described in Section 3.6.

Surface water samples SW-Trib, SW-US, and SW-DS were collected from the unnamed tributary to West Fork River that bisects the Property, upstream of the confluence of the tributary with the river, and downstream of the confluence with the river, respectively. A limited portion of the unnamed tributary was observed to be flowing, at the upper, northernmost portion of the Property. The tributary sample (SW-Trib) location was collected at the northern edge of the Property and reflects potential impacts from upgradient off-site sources. Surface water was collected before sediment at each of the joint sampling locations to reduce the chance for cross-contamination of samples.

The surface water samples were collected directly into the appropriate sample containers, using care not to overfill and lose preservative. All sample containers were placed directly in iced coolers and maintained at approximately 4°C for shipment or delivery to the laboratory.

SW-Trib was selected for a field duplicate. A trip blank sample for VOCs was also submitted.

### 3.8 Analytical Laboratory Services

Bottleware was labeled, placed into an iced container, and delivered with appropriate Chain-of-Custody documentation to Pace on January 13, 2022. An email was submitted to the Pace Project Manager on January 13, 2022, requesting the following analytical testing be added:

- PCBs
- Herbicides

It was also clarified via email to the Pace Project Manager that the PAH analyses on all samples were to be completed via 8270 SIM, and that all subsurface soils were to include an SPLP analysis.

Unfortunately, the laboratory neglected to add the requested analysis and this error was not discovered until the preliminary laboratory results reported on February 9, 2022. Environmental Standards immediately contacted the laboratory and requested the missing analyses be added. There was insufficient sample volume remaining to analyze the requested herbicides, low-level PAH, and SPLP for metals, PAH, and PCB.

For the samples that were analyzed, they were analyzed in accordance with the method requirements specified in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3<sup>rd</sup> Edition* (SW-846); specifically, VOCs by US EPA SW-846 Method 8260C, SVOCs, of which PAHs are a subset, by US EPA SW-846 Method 8270E,

PCBs by US EPA SW-846 Method 8082A, metals by US EPA SW-846 Method 6010D, and mercury by US EPA Methods 7470A/7471B

Copies of the Laboratory Analytical Results are provided in Appendix D.

### 3.9 Data Validation

In accordance with US EPA protocols, 100 percent (%) of the site assessment data were validated. A standalone data validation report has not been provided but can be made available upon request.

During the Phase II ESA activities, QC samples including field duplicate, MS/MSD, and trip blank samples were collected. All equipment utilized for soil sample collection was disposable, and therefore, no equipment blank samples were necessary. These QC data, as well as laboratory QC data such as method blanks, laboratory control samples, and surrogates were evaluated by Environmental Standards. The following summarizes data issues discovered during the review:

All mercury results were analyzed outside the US EPA-established holding times of 28 days of sample collection. The samples were prepared within 28 days of sample collection. The mercury results should be considered estimated, biased low, and have been qualified as J-.

The VOC SPLP results were extracted outside the US EPA-established holding times of 14 days of sample collection. Therefore, the VOC SPLP results should be considered estimated, biased low, and have been qualified as J-.

Acetone in the reported aqueous samples did not meet the method recommended minimum calibration response factor (RF) and did not meet the established QC limits in the associated laboratory control sample (LCS). Results for acetone in the associated samples may be biased low, and have been qualified as J- if detected, UJ if not detected.

Acetone, bromoform, bromomethane, and chloroethane in the reported aqueous samples did not meet the laboratory established continuing calibration acceptance limits. The results may be biased low and have been qualified as J- if detected, UJ if not detected.

Benzo(b)fluoranthene and benzo(k)fluoranthene did not meet the resolution criteria specified in the test method. Sample results are reported as individual isomers. The data do not need qualified for this issue.

A few SVOC analytes recovered above the established quality control limits in the associated laboratory control sample (LCS). Results for these analytes in associated samples may be biased high. The data were not qualified for this issue as the data were reported below the laboratory reporting limit.

SVOC system monitoring compounds (*i.e.*, surrogates) in samples SED-TRIB and SB-05 exceeded laboratory established acceptance criteria. The surrogate recovery failures were not used to qualify the data due to sample dilution.

SVOC surrogate recovery was above laboratory control limits in samples SED-DS, SB-01 (0-2), SB-01 (6-7), SB-02 (0-2), SB-02 (12-14), SB-06, SB-03 (0-2), SB-03 (10-12), and SB-04 (12-14). Results may be biased high and have been qualified as J+ if detected.

Lead, benzo[b]fluoranthene, fluoranthene, and pyrene did not meet the field duplicate precision data quality objective in sample SB-05(0-2). Therefore, the lead, benzo[b]fluoranthene, fluoranthene, and pyrene results reported in sample SB-05(0-2) should be considered estimated and have been qualified as J- if detected, UJ if not detected.

Naphthalene was analyzed and reported in samples SB-01 (6-7), SB-02 (12-14), SB-03 (10-12), and SB-04 (12-14) as both a VOC by Method 8260C and a SVOC by Method 8270E. There was a large discrepancy in the results reported, with naphthalene reported by Method 8270E significantly greater than the results reported by Method 8260C.

As qualified, data collected during the field sampling activities can be used to characterize the site, as well as to prepare a residual human health and ecological risk assessment for the site, if needed. The data can also be compared, as appropriate, to the applicable environmental regulatory benchmarks, standards, and criteria. The tabulated data presented in this report includes the applicable data validation qualifiers.



## **4.0 NATURE AND EXTENT OF CONTAMINATION**

Environmental Standards compared the laboratory analytical data for soils and sediments to the West Virginia Voluntary Remediation Program (VRP) residential and industrial *de minimis* risk-based concentration (RBC) values (Table 60-3B, revised December, 2021) as well as calculated recreational RBCs, in order to characterize the nature and extent of contamination in the context of the proposed recreational use.

The following exposure scenarios were used in the generation of the site-specific recreator RBCs (utilizing the US EPA regional screening level generator tool, [https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl\\_search](https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search)) for soil, surface water, and sediment:

- Exposure frequency to a recreator of 250 days a year
- Exposure time to a recreator of 4 hours a day
- Hazard quotient not to exceed 1.0
- Cumulative cancer risk of  $1 \times 10^{-6}$

Additionally, Environmental Standards compared the surface water laboratory analytical data to the WV Requirements Governing Water Quality Standards 47CSR2, Category C - Water Contact Recreation use designation. Surface water and sediment were also compared to Biological Technical Assistance Group (BTAG) Ecological Screening Benchmarks for freshwater and sediment.

A sample containing a compound or analyte exceeding the RBC value is identified as a contaminant of concern (COC). Results are summarized on Tables 3 through 6 and are depicted in Figures 4 through 6.

### **4.1 Surface Soil Contaminants of Concern**

Environmental Standards compared the surface soil laboratory analytical data to the West Virginia VRP residential and industrial *de minimis* RBC values, as well as calculated recreational RBCs, in order to characterize the nature and extent of any surface soil contamination in the context of the proposed recreational use.

Six surface soils, identified as SB-01(0-2) through SB-06(0-2), were collected and analyzed for metals, PCBs, and SVOCs, of which PAHs are a subset.

#### **Metals**

Laboratory analytical results indicate that all concentrations are below the residential, industrial, and recreational soil RBCs in surface soil sample locations.

#### **PCBs**

Laboratory analytical results indicate that all concentrations are below the residential, industrial, and recreational soil RBCs in surface soil sample locations.

#### **PAHs**

Laboratory analytical results indicate that there are PAH detections above the RBCs at surface soil sampling locations SB-01(0-2), SB-03(0-2), SB-04(0-2), SB-05(0-2), and SB-06(0-2), as summarized below.

All detections listed on the table below exceeded the residential and recreational standards and are, therefore, COCs in surface soil. There were no exceedances of industrial RBCs at any sampling location. Other SVOCs were not detected and were not tabulated.

PAH	Surface Soil Exceedance Locations
<b>Benz[a]anthracene</b>	SB-3(0-2) SB-5(0-2)
<b>Benzo[b]fluoranthene</b>	SB-3(0-2) SB-4(0-2) SB-5(0-2) SB-6(0-2)
<b>Benzo[a]pyrene</b>	SB-1(0-2) SB-3(0-2) SB-5(0-2) SB-6(0-2)
<b>Naphthalene</b>	SB-3(0-2) SB-4(0-2)

Table 3 provides a summary of the surface soil laboratory analytical results, and the locations of surface soil exceedances are depicted in Figure 4.

#### 4.2 Subsurface Soil Contaminants of Concern

Environmental Standards compared the subsurface soil laboratory analytical data to the West Virginia VRP residential and industrial *de minimis* RBC values, as well as calculated recreational RBCs, in order to characterize the nature and extent of any subsurface soil contamination in the context of potential soil excavation and the proposed recreational use.

Four subsurface samples, identified as SB-01(6-7), SB-02(12-14), SB-03(10-12), and SB-04(12-14), were collected and analyzed for metals, PCBs, VOCs, and SVOCs, of which PAHs are a subset.

Table 4 provides a summary of the subsurface soil laboratory analytical results, and subsurface soil exceedances are depicted on Figure 5.

#### Metals

Laboratory analytical results indicate that the concentration of metals evaluated in subsurface soils collected at the Site are below the recreational soil *de minimis* values, except for arsenic in samples SB-01(6-7) and SB-02(12-14) which exceeded the accepted background level of 13.1 milligram per kilogram (mg/kg) for residential and recreational users. It does not exceed the industrial soil RBC.

Therefore, arsenic is a COC in subsurface soil, but only if excavation activities would cause the subsurface soils in the areas of SB-01(6-7) and SB-02(12-14) to become exposed to future residents and recreators, which is not anticipated to occur.

### **PCBs**

Laboratory analytical results indicate that the concentration of PCBs evaluated in subsurface soils collected at the Site are below the industrial, residential, and recreational soil RBC values.

### **PAHs**

Laboratory analytical results indicate that the concentration of PAHs evaluated in subsurface soils collected at the Site are below the industrial, residential, and recreational soil RBC values, except for naphthalene in sample SB-03(10-12), which exceeded the residential and recreational RBCs. It does not exceed the industrial soil RBC. Other SVOCs were not detected and were not tabulated.

Therefore, PAHs were eliminated as COCs in subsurface soil with the exception of naphthalene. Naphthalene is a COC in subsurface soil but only if excavation activities would cause the subsurface soils in the area of SB-03(10-12) to become exposed to future residents and recreators, which is not anticipated to occur. SB-03 is located along the roadway and former railroad.

### **VOCs**

Laboratory analytical results indicate that the concentration of VOCs evaluated in subsurface soils collected at the Site are below the applicable residential, industrial, and recreational soil RBC values.

Therefore, VOCs were eliminated as COCs in subsurface soil.

## 4.3 Surface Water Contaminants of Concern

To determine the nature and extent of contamination in surface water, Environmental Standards compared the surface water laboratory analytical data to the WV Requirements Governing Water Quality Standards 47CSR2, Category C - Water Contact Recreation use designation, calculated recreational RBCs (utilizing the US EPA RSL Calculator, [https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl\\_search](https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search), surface water export), and the US EPA BTAG Ecological Screening Benchmarks for surface water.

Three surface water samples (SW-US [upstream], SW-Trib [at the tributary], and SW-DS [downstream]) were collected and analyzed for metals, VOCs, and SVOCs, of which PAHs are a subset.

Please refer to Table 5 for a summary of the surface water laboratory analytical results.

### **Metals**

Laboratory analytical results indicate that the concentrations of metals were below all of their respective RBC values in surface water samples, with the exception of barium, which exceeded its BTAG RBC of 4 microgram per liter ( $\mu\text{g/L}$ ) at all three sampling locations. Because barium is present in the upstream sample location at a concentration equivalent to the tributary and downstream locations, the source of barium cannot be attributed to the Site.

In addition, standard protocol within the WV VRP dictates that BTAG RBCs are to be utilized only if alternative RBCs are not available for comparison. In this instance, barium has a calculated recreational surface water RBC that greatly exceeds the concentrations detected

in the surface water, and BTAG RBCs are only provided for reference. Therefore, barium is not a COC in surface water at the Site.

### **PAHs**

Laboratory analytical results indicate that the concentration of PAHs evaluated were below their respective RBC values in surface water samples. Therefore, PAHs were not identified as COCs in surface water. Other SVOCs were not detected and were not tabulated.

#### 4.4 **Sediment Contaminants of Concern**

Environmental Standards compared the sediment soil laboratory analytical data to the US EPA BTAG Ecological Screening Benchmarks for sediments.

Three sediment samples (Sed-US [upstream], Sed-Trib [at the tributary], and Sed-DS [downstream]) were collected and analyzed for metals, PCBs, and SVOCs (of which PAHs are a subset). Table 6 provides a summary of the laboratory analytical results, and the locations of sediment exceedances are depicted in Figure 6.

### **Metals**

Laboratory analytical results indicate that there are concentrations of metals evaluated in sediments collected at the Site above the BTAG RBCs. They are:

- SED-US [upstream]: arsenic, selenium, and silver
- SED-Trib [in the tributary at its most upgradient location on the Site]: lead, mercury, selenium, and silver
- SED-DS [downstream]: silver

Because arsenic, selenium, and silver are present in the upstream sample location at a concentration equivalent to downstream locations, the source of arsenic, selenium, and silver cannot be attributed to the Site. Because lead and mercury are present in the upgradient tributary sample location, the source of lead and mercury also cannot be attributed to the Site and is likely from off-site upgradient sources.

### **PCBs**

Laboratory analytical results indicate that the concentration of PCBs evaluated in sediments collected at the Site are below the BTAG RBC values.

### **PAHs**

Laboratory analytical results indicate that the concentration PAHs evaluated were above their respective RBCs in sediment location SED-Trib, located in the upgradient portion of the tributary on the Site. However, the upstream and downstream sediment samples had elevated laboratory reporting limits, making a fair data comparison to the tributary data challenging. The laboratory explained the elevated reporting limits of Sed-US and Sed-DS were due to the sample extract's physical characteristics, likely darker in color, and the analysis was performed at dilution. However, when Sed-US and Sed-DS are compared against each other, there is no measurable difference in PAH concentrations.

Because PAHs are present in the upgradient tributary sample location, the source of PAH measured in the tributary cannot be attributed to the Site and is likely from off-site upgradient sources.

#### 4.5 Groundwater Contaminants of Concern

Groundwater monitoring wells could not be installed due to equipment limitations and subsurface conditions at the Site. Therefore, SPLP was utilized on the four subsurface soil samples to estimate the potential adsorption-desorption of contaminants in subsurface soil that may impact groundwater at the Site.

To determine the nature and extent of contamination in groundwater, Environmental Standards compared the VOC SPLP leachate laboratory analytical data to the WV VRRRA groundwater *de minimis* RBC values (Table 60-3B, revised December 2021).

**VOCs:** Laboratory analytical results indicate that the concentrations of VOCs evaluated in SPLP samples collected at the subsurface locations on Site are below the groundwater *de minimis* values. Therefore, VOCs are not a groundwater contaminant COC at the Site.

Please refer to Table 7 for a summary of the SPLP laboratory analytical results.

The laboratory was unable to perform the requested analysis of SPLP of metals and PAHs on the four subsurface samples, and therefore the potential adsorption-desorption of these contaminants could not be compared to applicable RBC values. However, the elevated concentration of arsenic and naphthalene (a PAH) observed in the subsurface soils may be indicative of potential groundwater impacts of these chemicals. It should also be noted that there are no occupied buildings on or intended for the Property, nor is there a plan to extract groundwater for potable use, resulting in an incomplete groundwater pathway for the Site.

#### 4.6 Vapor Intrusion Screening

The SPLP leachate analytical results of compounds that are prone to volatilization were compared to screening levels using the US EPA's Vapor Intrusion Screening Level (VISL) Calculator ([https://epa-visl.ornl.gov/cgi-bin/visl\\_search](https://epa-visl.ornl.gov/cgi-bin/visl_search)) in order to determine if vapor intrusion can be a potentially complete pathway at the Site.

The VOC leachates were not detected in concentrations over residential or industrial RBCs. Please refer to Table 7 for a summary of the SPLP laboratory analytical results.

It should also be noted that there are no occupied buildings on or intended for the Property, resulting in an incomplete vapor intrusion pathway for the Site.

## **5.0 CONCLUSIONS**

Based on these Phase II ESA investigations and results, Environmental Standards developed the following conclusions.

### **5.1 Surface Soil**

Surface soils have been impacted by historic on-site activities. All surface soil samples, except SB-02(0-2) had concentrations of at least one PAH (benz[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, and/or naphthalene) above recreational RBCs. SB-01 is located approximately 75 feet north of Industrial Contracting Road, along a walking path on the Site. SB-02 is located just north of Industrial Contracting Road. SB-03 and SB-04 are located along the southern edge of the roadway.

PAHs are a result of incomplete combustion of organic matter, such as coal, oil, petroleum, and wood. This corresponds with the historic usage of the Property as refuse burning area as well as a railroad line, and the discovery of coal waste in the soil borings. PAHs are also found in railroad facilities with creosote-treated railway ties, which would have historically been located on Industrial Contracting Road.

Therefore, PAHs are a COC in surface soils of the Site.

### **5.2 Subsurface Soil**

Naphthalene and arsenic are COCs in subsurface soil, but only if excavation activities would cause the subsurface soils in the areas of SB-01(6-7), SB-02(12-14) and SB-03 (10-12) to become exposed to future residents and recreators, which is not anticipated to occur.

Arsenic was detected in two subsurface locations [SB-01(6-7) and SB-02(12-14)] on the northern parcel (24-03-0008-0023-0000), and naphthalene was detected in one subsurface location, SB-03 (10-12), on the southern parcel (24-03-0008-0140-0000) near Industrial Contracting Road and the former rail line.

### **5.3 Surface water**

No surface water near the Site has been impacted by historical on-site activities.

### **5.4 Sediment**

There are no COCs in sediment at the Site whose source can be attributed to the Site.

### **5.5 Groundwater**

Groundwater monitoring wells could not be installed due to equipment limitations and subsurface conditions at the Site; therefore, potential groundwater impacts have been inferred from subsurface soil concentrations and/or leachate analysis.

Elevated concentrations of arsenic and naphthalene (a PAH) observed in the subsurface soils may be indicative of potential groundwater impacts of these chemicals. There are no occupied buildings on the Property and groundwater is not extracted for potable use, resulting in an incomplete groundwater pathway for the Site.

## 5.6 Vapor Intrusion Potential

SPLP and soil concentrations were below the vapor intrusion screening criteria, making vapor intrusion an incomplete pathway.

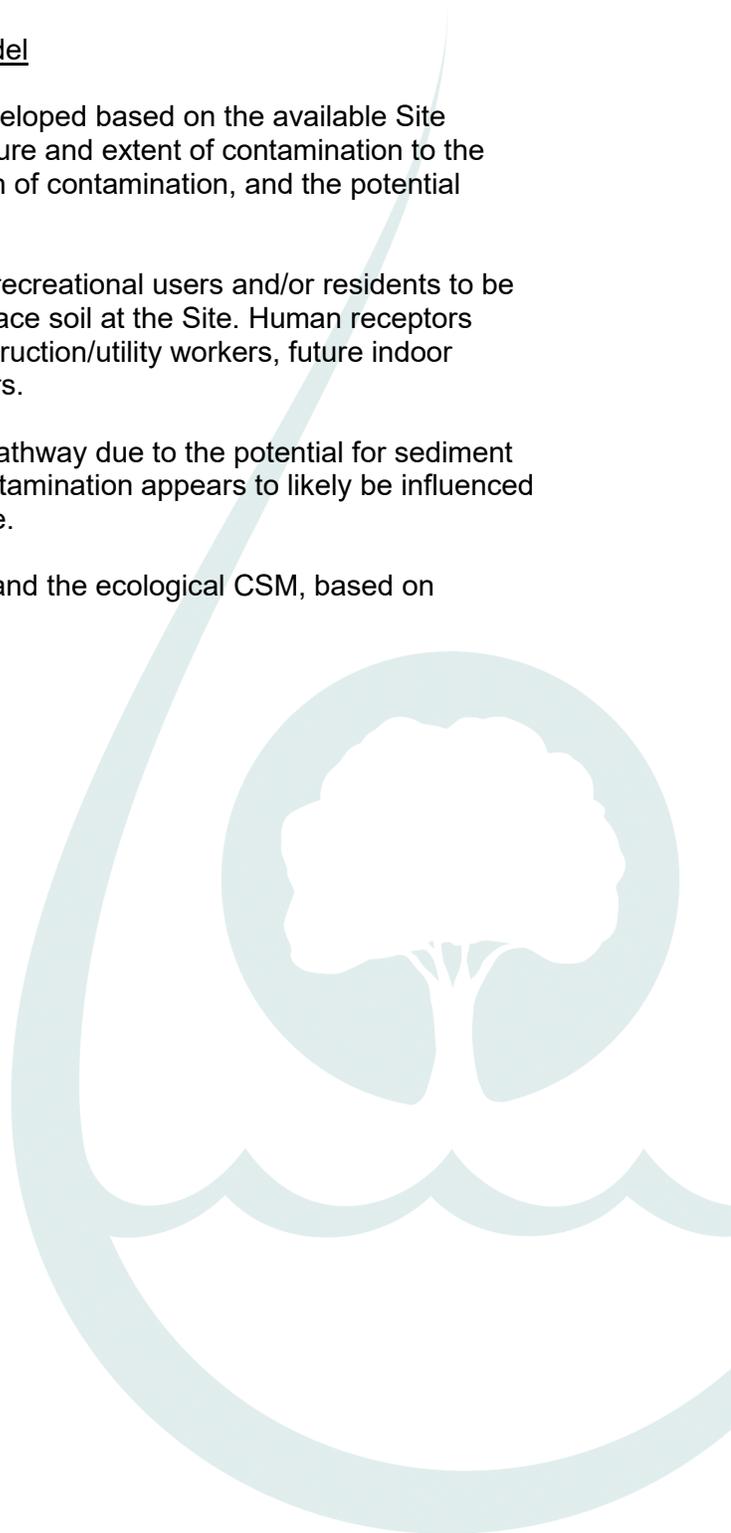
## 5.7 Summary Conceptual Site Model

A summary conceptual site model (CSM), was developed based on the available Site information. The CSM identifies the COCs, the nature and extent of contamination to the degree known, the potential pathways for migration of contamination, and the potential receptors, both human health and ecological.

There is a potentially complete pathway for future recreational users and/or residents to be exposed to elevated concentration of PAHs in surface soil at the Site. Human receptors evaluated in the CSM were outdoor workers, construction/utility workers, future indoor workers, resident, recreator and visitors/trespassers.

The ecological pathway is a potentially complete pathway due to the potential for sediment contamination on Site; however, any sediment contamination appears to likely be influenced by an off-site source and not attributable to the Site.

A visual representation of the human health CSM and the ecological CSM, based on potential exposures, is presented in Appendix E.

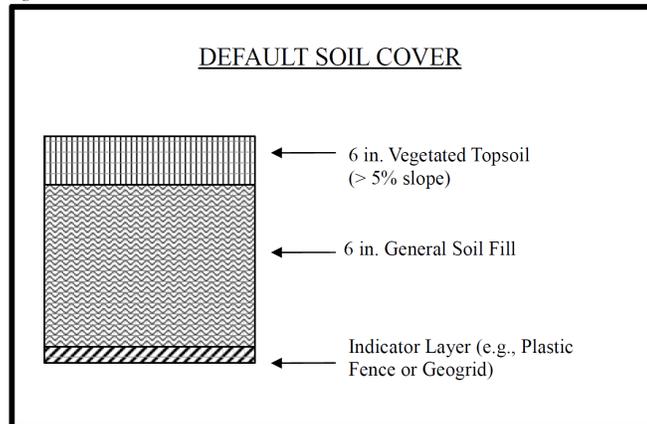


## 6.0 RECOMMENDATIONS

Based on the findings of the Phase II ESA, Environmental Standards recommends the following:

A soil cover be put in place in locations to be developed for either residential or recreational use. The cover can be a 1-foot layer of clean soil that is intended to provide a barrier to the contaminated soil. Below is an example of a default soil cover provided by the WVDEP (source: *VRP Guidance Manual, June 2020*).

Figure F-1: Default Soil Cover



As an alternative to using soil to prevent direct contact with contaminated soil, other materials may be used. For example, a layer of aggregate (crushed stone or gravel) or pavement (asphalt or concrete) if heavy foot, bike, or vehicular traffic is anticipated. Rubber chips, wood chips, bark chips, or other organic mulch can be used in situations where the final use includes landscaping. In all cases, routine maintenance and repair of the cover is recommended.

If future Property development, for either residential or recreational use, in the areas of SB-01(6-7), SB-02(12-14), and SB-03(10-12) should result in excavation of subsurface soils at depths greater than 2 feet, a Soil Management Plan (SMP) should be developed and followed to protect future users of the Property. The SMP should include confirmation soil testing for the presence of naphthalene and arsenic to confirm the appropriate RBC is not exceeded.

If future Property development should include the need for groundwater use, a groundwater testing program should be developed and followed to ensure the groundwater is appropriate for the intended use. The testing program should include metals and PAHs.

## **7.0 REFERENCES**

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US EPA VISL Calculator. [https://epa-visl.ornl.gov/cgi-bin/visl\\_search](https://epa-visl.ornl.gov/cgi-bin/visl_search)

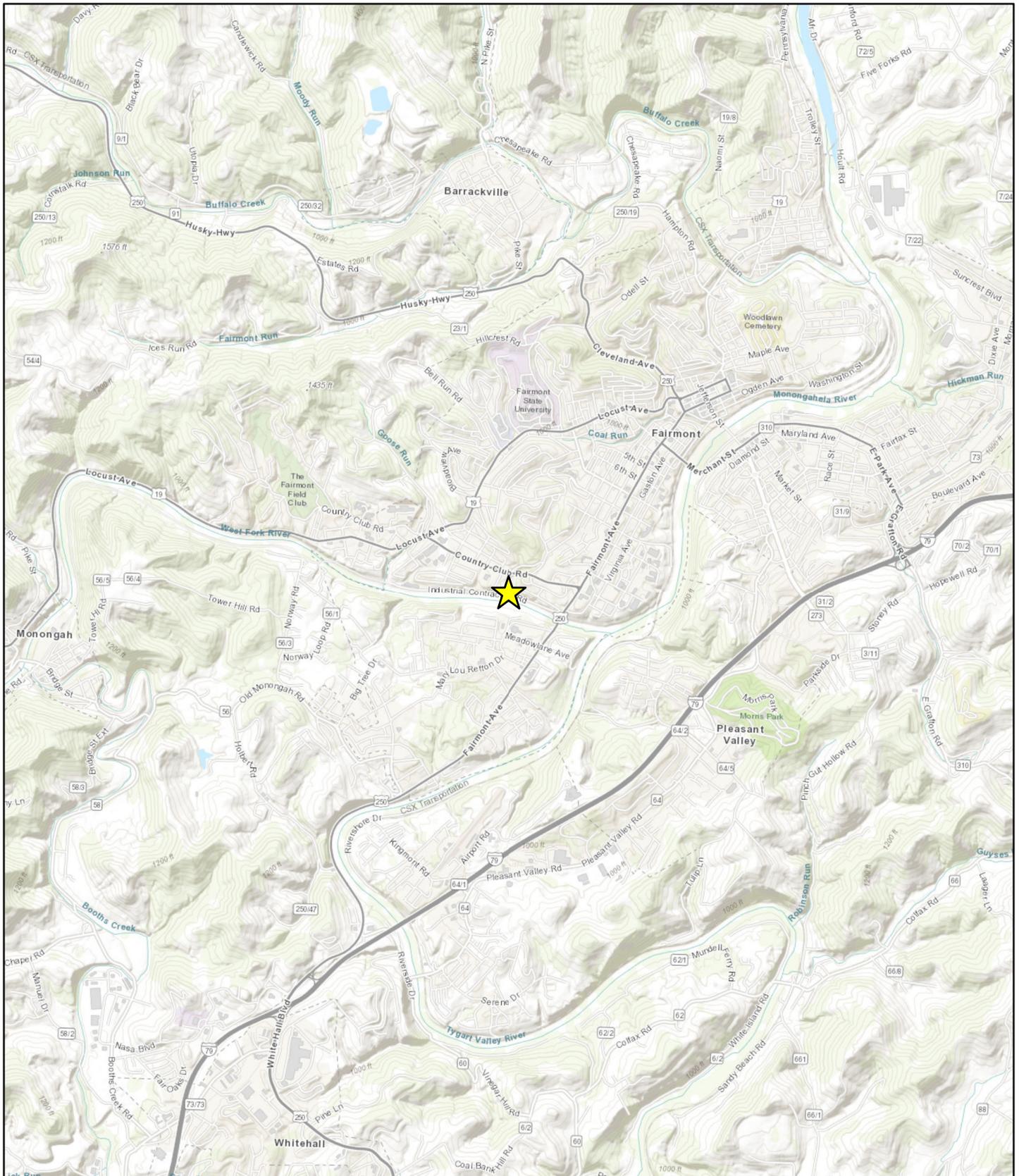
West Virginia Voluntary Remediation and Redevelopment Rule, March 2018.

West Virginia Voluntary Remediation and Redevelopment Act Guidance Manual, June 2020.

West Virginia Department of Environmental Protection, Quality Assurance Program Plan, Revision 5, September 21, 2016.

**FIGURES**





VITA, WEST VIRGINIA GIS, ESRI, HERE, GARMIN, INCREMENT P, USGS, METI/NASA, EPA, USDA

★ SITE LOCATION



0 0.25 0.5 1 MILES

CREATION DATE: JUNE 25, 2021	PROJECT NO: 20198730.A	FIGURE 1: TOPOGRAPHIC SITE LOCATION MAP
	DRAWN BY: APPR'VD BY: LM LM	
	CHEK'D BY: LM	REVISION: 0



MAXAR, MICROSOFT

 PARCEL BOUNDARIES

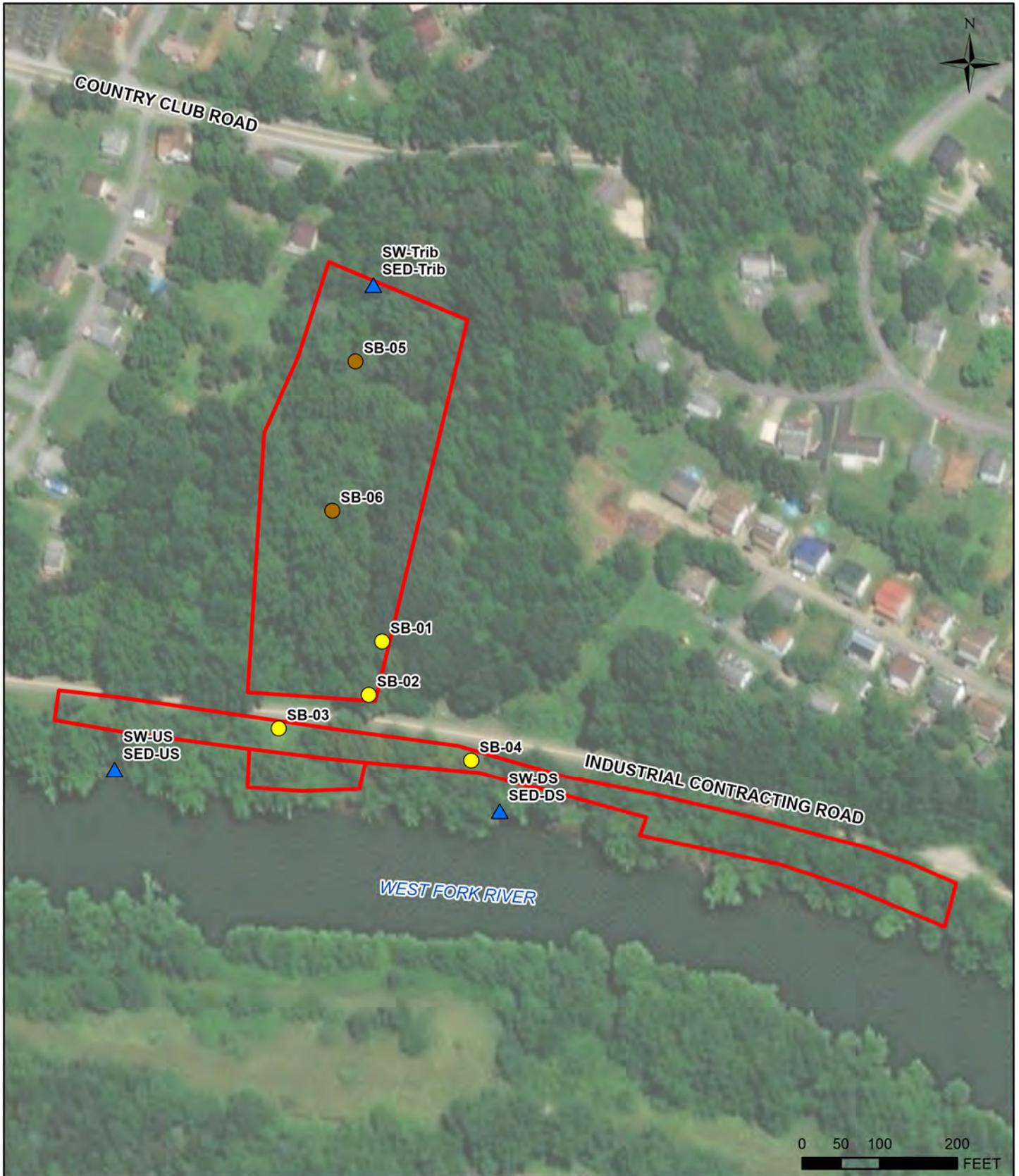


CREATION DATE: JUNE 25, 2021		PROJECT NO: 20198730.A	
DRAWN BY: MNW		APPRVD BY: LM	
CHK'D BY: LM		REVISION: 0	



FIGURE 2:  
SITE LOCATION MAP

INDUSTRIAL TRAIL PROJECT  
WEST FORK RIVER TRAIL, FAIRMONT, WV



- PARCEL BOUNDARIES
- SURFACE/SUBSURFACE SOIL SAMPLE
- SURFACE SOIL SAMPLE - HAND DUG
- ▲ SURFACE WATER/SEDIMENT SAMPLE

CREATION DATE: JANUARY 18, 2021	PROJECT NO: 20198730.A	<b>FIGURE 3: SAMPLE LOCATION MAP</b>			
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN BY: MNW</td> <td style="width: 50%;">APPR'D BY: LM</td> </tr> <tr> <td>CHEK'D BY: LM</td> <td>REVISION: 0</td> </tr> </table>		DRAWN BY: MNW	APPR'D BY: LM	CHEK'D BY: LM
DRAWN BY: MNW	APPR'D BY: LM				
CHEK'D BY: LM	REVISION: 0				

0 50 100 200  
FEET

MAXAR, MICROSOFT

INDUSTRIAL TRAIL PROJECT  
WEST FORK RIVER TRAIL, FAIRMONT, WV

	Residential Soil RBC	Recreational Soil RBC
Benz[a]anthracene	1500	1600
Benzo[b]fluoranthene	1100	1600
Benzo[a]pyrene	110	161
Naphthalene	2400	5010



SB-05 (0-2)	
mg/kg	1/12/2022
Benz[a]anthracene	6870 J
Benzo[b]fluoranthene	12000
Benzo[a]pyrene	6290 J

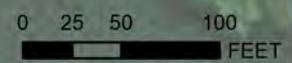
SB-06 (0-2)	
mg/kg	1/12/2022
Benzo[a]pyrene	174 J

SB-01 (0-2)	
mg/kg	1/11/2022
Benzo[a]pyrene	167 J

SB-04 (0-2)	
mg/kg	1/11/2022
Benzo[b]fluoranthene	2040 J
Naphthalene	9110

SB-03 (0-2)	
mg/kg	1/11/2022
Benz[a]anthracene	1780 J
Benzo[b]fluoranthene	3480 J
Benzo[a]pyrene	1480 J
Naphthalene	7450

SB-02



- PARCEL BOUNDARIES
- SURFACE SOIL SAMPLE
- SURFACE SOIL SAMPLE - HAND DUG

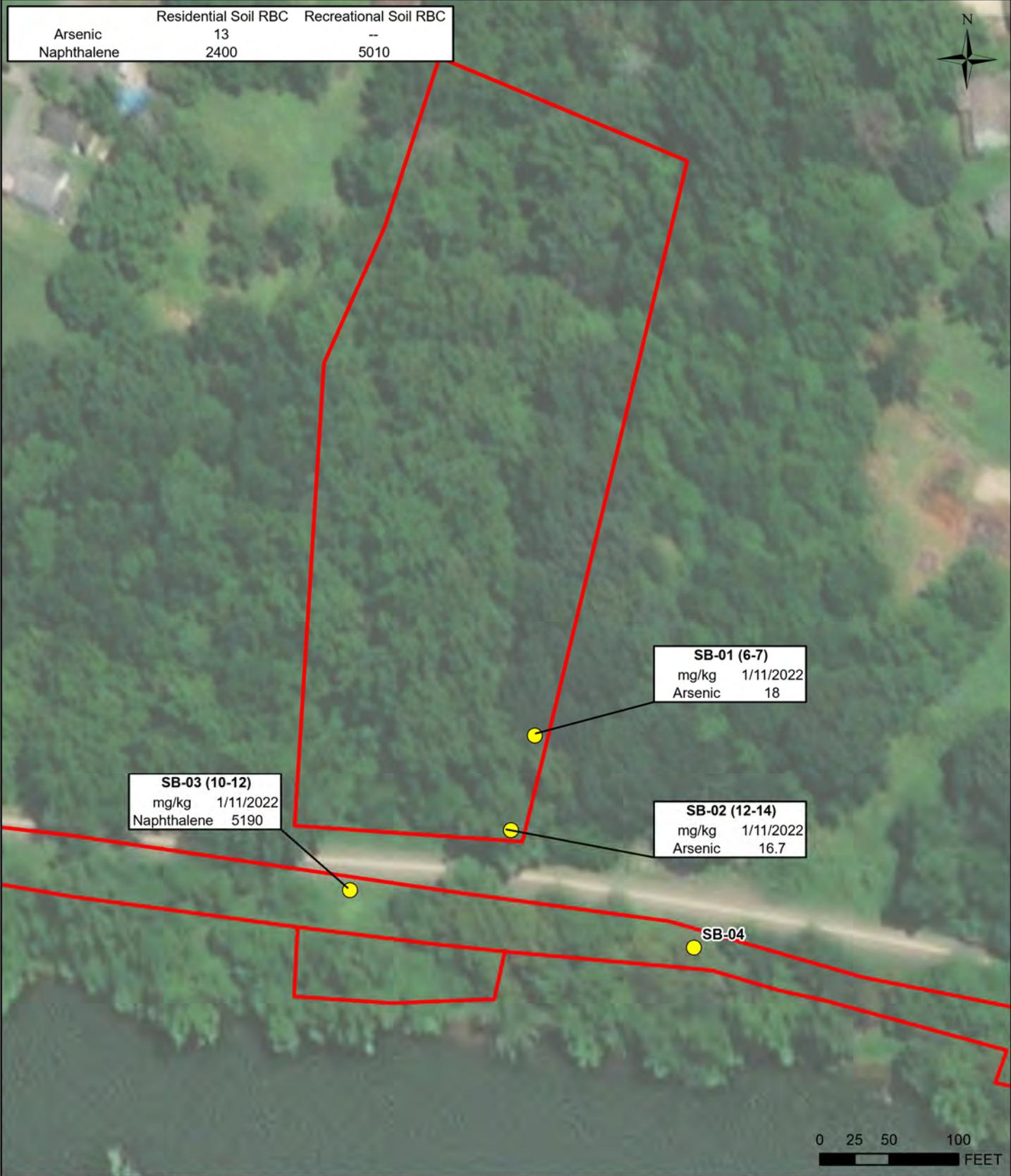
NOTES:  
 1. J - INDICATES ESTIMATED RESULT. THE RESULT IS BETWEEN THE DETECTION LIMIT AND THE REPORTING LIMIT.

CREATION DATE: MARCH 14, 2022	PROJECT NO: 20198730.A	DRAWN BY: MNW	APPRVD BY: LM

FIGURE 4:  
SURFACE SOIL EXCEEDANCES

INDUSTRIAL TRAIL PROJECT  
WEST FORK RIVER TRAIL, FAIRMONT, WV

	Residential Soil RBC	Recreational Soil RBC
Arsenic	13	--
Naphthalene	2400	5010

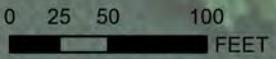


**SB-03 (10-12)**  
mg/kg 1/11/2022  
Naphthalene 5190

**SB-01 (6-7)**  
mg/kg 1/11/2022  
Arsenic 18

**SB-02 (12-14)**  
mg/kg 1/11/2022  
Arsenic 16.7

**SB-04**



- PARCEL BOUNDARIES
- SUBSURFACE SOIL SAMPLE

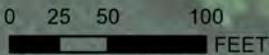
MAXAR, MICROSOFT

CREATION DATE: MARCH 14, 2022		PROJECT NO: 20198730.A		<b>FIGURE 5:</b> <b>SUBSURFACE SOIL EXCEEDANCES</b>
DRAWN BY: MNW		APPRVD BY: LM		
CHEK'D BY: KM		REVISION: 0		INDUSTRIAL TRAIL PROJECT WEST FORK RIVER TRAIL, FAIRMONT, WV



SED-Trib	
mg/kg	1/12/2022
Benz[a]anthracene	2760 J
Benzo[b]fluoranthene	4890
Benzo[a]pyrene	2440 J

	Residential Soil RBC	Recreational Soil RBC
Benz[a]anthracene	1500	1600
Benzo[b]fluoranthene	1100	1600
Benzo[a]pyrene	110	161



- PARCEL BOUNDARIES
- ▲ SEDIMENT SAMPLE

NOTES:  
 1. J - INDICATES ESTIMATED RESULT. THE RESULT IS BETWEEN THE DETECTION LIMIT AND THE REPORTING LIMIT.

CREATION DATE: MARCH 14, 2022	PROJECT NO: 20198730.A	DRAWN BY: MNW	APPRVD BY: LM
ENVIRONMENTAL STANDARDS			

FIGURE 6:  
SEDIMENT EXCEEDANCES

INDUSTRIAL TRAIL PROJECT  
 WEST FORK RIVER TRAIL, FAIRMONT, WV

## TABLES



**Table 1. Phase II Sample Summary**  
**West Fork River Trail Property**  
**Grant BF-963604-01-0**  
**Fairmont, Marion County, West Virginia**

<b>Sample Identification</b>	<b>Media</b>	<b>Area of Potential Concern</b>	<b>Reason for Assessment</b>
SB-01(0-2)	Surface Soil (0-2' bgs)	Approximately 50ft north of SB-02, at the intersect of the stream channel and cliff	Current soil conditions
SB-02(0-2)	Surface Soil (0-2' bgs)	Southeastern corner of parcel 24-03-0008-0140-0000	Current soil conditions
SB-03(0-2)	Surface Soil (0-2' bgs)	Along the roadway and former railroad, on parcel 24-03-0008-0140-0000	Current soil conditions
SB-04(0-2)	Surface Soil (0-2' bgs)	Along the roadway and former railroad, on parcel 24-03-0008-0140-0000	Current soil conditions
SB-05(0-2)	Surface Soil (0-2' bgs)	Parcel 24-03-0008-0023-0000, near historic dumping/vehicle parts/mounds	Current soil conditions
SB-06(0-2)	Surface Soil (0-2' bgs)	Approximate center of 24-03-0008-0023-0000, near abandoned ASTs	Current soil conditions
SB-01(6-7)	Subsurface Soil (> 2' bgs)	Approximately 50ft north of SB-02, at the intersect of the stream channel and cliff	Current soil conditions/leaching potential
SB-02(12-14)	Subsurface Soil (> 2' bgs)	Southeastern corner of parcel 24-03-0008-0140-0000	Current soil conditions/leaching potential
SB-03(10-12)	Subsurface Soil (> 2' bgs)	Along the roadway and former railroad, on parcel 24-03-0008-0140-0000	Current soil conditions/leaching potential
SB-04(12-14)	Subsurface Soil (> 2' bgs)	Along the roadway and former railroad, on parcel 24-03-0008-0140-0000	Current soil conditions/leaching potential
Sed-US	Sediment	West Fork River, upstream of discharge from Property	Current sediment conditions
Sed-Trib	Sediment	Discharge/tributary on Property, upgradient of sewage lines	Current sediment conditions
Sed-DS	Sediment	West Fork River, downstream of discharge from Property	Current sediment conditions
SW-US	Surface Water	West Fork River, upstream of discharge from Property	Current surface water conditions
SW-Trib	Surface Water	Discharge/tributary on Property, upgradient of sewage lines	Current surface water conditions
SW-DS	Surface Water	West Fork River, downstream of discharge from Property	Current surface water conditions

**Table 2. Analytical Summary**  
**West Fork River Trail Property**  
**Grant BF-963604-01-0**  
**Fairmont, Marion County, West Virginia**

Environmental Media and Sample Identification	VOCs	PAHs	PCBs	Total	Herbicides	VOCs	PAHs	PCBs	Total	Herbicides	Sample Type
	SW8260	SW8270 SIM	8082A	Metals SW6010C or 6020A	8151A	SPLP	SPLP	SPLP	Metals SPLP	SPLP	
<b>Soil Samples</b>											
<b>Surface Soil (0'-2' bgs)</b>											
SB-01(0-2)	--	1***	1	1	--	1**	--	--	--	--	Grab
SB-02(0-2)	--	1***	1	1	--	1**	--	--	--	--	Grab
SB-03(0-2)	--	1***	1	1	1*	1**	--	--	--	--	Grab
SB-04(0-2)	--	1***	1	1	1*	1**	--	--	--	--	Grab
SB-05(0-2)	--	1***	1	1	--	1**	--	--	--	--	Grab
SB-06(0-2)	--	1***	1	1	--	1**	--	--	--	--	Grab
<b>Subsurface Soil (&gt; 2' bgs)</b>											
SB-01(6-7)	1	1***	1	1	--	1*	1*	1*	1*	--	Grab
SB-02(12-14)	1	1***	1	1	--	1*	1*	1*	1*	--	Grab
SB-03(10-12)	1	1***	1	1	1*	1*	1*	1*	1*	1*	Grab
SB-04(12-14)	1	1***	1	1	1*	1*	1*	1*	1*	1*	Grab
<b>Sediment Soil (&gt; 2' bgs)</b>											
Sed-US	--	1***	1	1	--	--	--	--	--	--	Grab
Sed-Trib	--	1***	1	1	--	--	--	--	--	--	Grab
Sed-DS	--	1***	1	1	--	--	--	--	--	--	Grab
<b>Aqueous Samples</b>											
<b>Surface water</b>											
SW-US	1**	1***	--	1	--	--	--	--	--	--	Grab
SW-Trib	1**	1***	--	1	--	--	--	--	--	--	Grab
SW-DS	1**	1***	--	1	--	--	--	--	--	--	Grab

Note:  
 \* = Deviation from SAP; not analyzed  
 \*\* = Deviation from SAP; analyzed, not originally requested  
 \*\*\* = Deviation from SAP, analyzed via SW8270 only  
 VOCs = volatile organic compounds.  
 PCBs = polychlorinated biphenyls  
 SPLP = synthetic precipitation leachate procedure  
 PAHs = polycyclic aromatic hydrocarbons

**Table 3. 2022 Phase II ESA Surface (0' - 2') Soil Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	Industrial Soil RBC	Residential Soil RBC	Recreational Soil RBC	Date:	SB-01 (0-2)		SB-02 (0-2)		SB-03 (0-2)		SB-04 (0-2)		SB-05 (0-2)		SB-05 (0-2) FIELD DUP		SB-06 (0-2)	
					1/11/2022		1/11/2022		1/11/2022		1/11/2022		1/12/2022		1/12/2022		1/12/2022	
					Units	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
<b>Metals</b>																		
Arsenic	30	13.1*	13.1*	mg/kg	4.6	J	11.6		6.8		7.1		8		6.5	J	8.0	
Barium	220000	15000	21800	mg/kg	69.5		200		95.9		89.1		135		113		68.9	
Cadmium	530	37	10	mg/kg	0.16	J	0.32	J	0.25	J	0.59	J	0.64	J	0.45	J	0.6	J
Chromium (RBCr)	1000000	120000	--	mg/kg	15		16.8		12.5		8.7		20.9		20.4		16.9	
Lead (RBCr)	800	400	--	mg/kg	67.9		42.4		35.4		86.5		259	J	135	J	55.3	
Mercury	3.1	3.1	91.2	mg/kg	0.24	J-, H1	0.066	J-, H1	0.1	J-, H1	0.089	J-, H1	0.11	J-, H1	0.1	J-, H1	0.2	J-, H1
Selenium	5800	390	547	mg/kg	1.9	J	2.7	J	2.1	J	2.9	J	2.5	J	4.3	J	2.2	J
Silver	5800	390	548	mg/kg	7.3		15.6		10		11.1		13.2		14.8		14.6	
<b>PCBs</b>																		
Aroclor 1016	82000	5500	5750	µg/kg	<56.3		<72.5		<114		<123		<148		<161		<69.7	
Aroclor 1221	12000	260	335	µg/kg	<81.0		<104		<163		<177		<212		<231		<100	
Aroclor 1232	10000	220	325	µg/kg	<83.1		<107		<168		<182		<218		<237		<103	
Aroclor 1242	15000	310	344	µg/kg	<66.7		<85.9		<135		<146		<175		<190		<82.3	
Aroclor 1248	15000	310	343	µg/kg	<52.5		<67.6		<106		<115		<138		<150		<64.9	
Aroclor 1254	15000	320	346	µg/kg	<48.7		<62.7		<98.2		<107		<128		<139		<60.2	
Aroclor 1260	16000	330	347	µg/kg	<52.0		<66.9		<105		<114		<136		<148		<64.3	
<b>PAHs</b>																		
Acenaphthene	47000000	4100000	5020000	µg/kg	<127		<807	J+	<1280		<1360		<3210		<1780		<152	
Acenaphthylene (RBCr)	51000000	4200000	--	µg/kg	<112		<713	J+	<1130		<1200		<2840		<1570		<134	
Anthracene	350000000	23000000	25100000	µg/kg	<85.6		<546	J+	<863		<921		<2170		<1200		<103	
Benz[a]anthracene	320000	1500	1600	µg/kg	179	J+	<1070	J+	<b>1780 J</b>	J+	<1800		<b>6870</b>	J	<2350		<201	
Benzo[b]fluoranthene	210000	1100	1610	µg/kg	370	J+	<722	J+	<b>3480</b>	J+	<b>2040</b>	J	<b>12000</b>	J	<b>3270</b>	J	407	J+
Benzo[k]fluoranthene	2100000	11000	16100	µg/kg	308	J+	<1050	J+	3260	J+	1910	J	10000		2720	J	339	J+
Benzo[g,h,i]perylene (RBCr)	23000000	1800000	--	µg/kg	<129		<824	J+	<1300		<1390		<3280		<1810		<155	
Benzo[a]pyrene	21000	110	161	µg/kg	<b>167</b>	J+	<738	J+	<b>1480</b>	J+	<1250		<b>6290</b>	J	<b>1650</b>	J	<b>174</b>	J+
Chrysene	21000000	110000	161000	µg/kg	193	J+	<878	J+	2120	J+	<1480		7360	J	2030	J	267	J+
Dibenz[a,h]anthracene	21000	110	161	µg/kg	<142		<903	J+	<1430		<1520		<3600		<1990		<170	
Fluoranthene	30000000	2400000	3350000	µg/kg	319	J+	<764	J+	2960	J+	<1290		16000	J	4460	J	420	J+
Fluorene	37000000	2900000	3350000	µg/kg	<114		<727	J+	<1150		<1230		<2900		<1600		<137	
Indeno[1,2,3-cd]pyrene	210000	1100	1610	µg/kg	<140		<894	J+	<1410		<1510		<3560		<1970		<168	
1-Methylnaphthalene	390000	24000	24600	µg/kg	255	J+	<597	J+	8300	J+	10300		<2380		<1310		161	J+
2-Methylnaphthalene	4700000	310000	33500	µg/kg	296	J+	<714	J+	9940	J+	12900		<2840		<1570		181	J+
Naphthalene	110000	2400	5010	µg/kg	200	J+	<644	J+	<b>7450</b>	J+	<b>9110</b>		<2560		<1420		125	J+
Phenanthrene (RBCr)	35000000	23000000	--	µg/kg	269	J+	<1040	J+	4160	J+	4500		7400	J	<2300		293	J+
Pyrene	34000000	2300000	2510000	µg/kg	263	J+	<868	J+	2650	J+	<1460		13200	J	3750	J	359	J+

**Table 3. 2022 Phase II ESA Surface (0' - 2') Soil Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	Industrial Soil RBC	Residential Soil RBC	Recreational Soil RBC		SB-01 (0-2)	SB-02 (0-2)	SB-03 (0-2)	SB-04 (0-2)	SB-05 (0-2)	SB-05 (0-2) FIELD DUP	SB-06 (0-2)	
				Date:	1/11/2022	1/11/2022	1/11/2022	1/11/2022	1/12/2022	1/12/2022	1/12/2022	
				Units	Dry Result	Dry Result						
<b>Other</b>												
% moisture	--	--	--	%	11.4	30.8	12.1	17.9	31	36.8	26.6	

**Notes:**

RBC = Risk-based concentration for a recreator (rail trail user) using USEPA Regional Screening Level (RSL) generator on Mar 10, 2022 for HQ=1, Cancer Risk  $1 \times 10^{-6}$  EF=250 days/yr, ET=4.0 hr/day.

RBCr = In the absence of a recreator RBC, the residential soil RBC is used, as defined in the West Virginia Voluntary Remediation and Redevelopment Act Table 60-3B De Minimis, December 2021.

\*Arsenic soil RBC is the maximum published background concentration (VRP Guidance Manual, Table 3-3: Background Concentrations of Elements in WV Soils).

*Italic = indicates a laboratory reporting limit above one or more RBCs.*

< - Indicates analyte was not detected above Laboratory Method Detection Limit

J - indicates estimated result between the detection limit and the reporting limit

J- - indicates estimated result, biased low.

J+ - indicates estimated result, biased high.

H1= Analysis conducted outside the EPA method holding time.

" ---" - No standard available

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

NA - Not analyzed

Highlighted and bold results - result is above the standard.

**Table 4. 2022 Phase II ESA Subsurface Surface (6'-14') Soil Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	Industrial Soil RBC	Residential Soil RBC	Recreational Soil RBC	SB-01 (6-7)								SB-02 (12-14)								SB-03 (10-12)								SB-04 (12-14)																																
				Date:	1/11/2022								1/11/2022								1/11/2022								1/11/2022																															
				Units	Dry Result								Dry Result								Dry Result								Dry Result																															
<b>Metals</b>																																																												
Arsenic	30	13.1*	13.1*	mg/kg	18								16.7								5.5								J								10.3																							
Barium	220000	15000	21800	mg/kg	94.2								134								67.9								96.2																															
Cadmium	530	37	10	mg/kg	<0.14								<0.13								<0.15								0.15																															
Chromium (RBCr)	1000000	120000	--	mg/kg	13.5								25.1								10.7								24.4																															
Lead (RBCr)	800	400	--	mg/kg	19.1								19.1								10								17.6																															
Mercury	3.1	3.1	91.2	mg/kg	0.035				J-, H1				0.03				J-, H1				0.12				J-, H1				0.051				J-, H1																											
Selenium	5800	390	547	mg/kg	3.3								J								1.9								J								<1.3								3.9								J							
Silver	5800	390	548	mg/kg	19.4								19								6.3								20.5																															
<b>PCBs</b>																																																												
Aroclor 1016	82000	5500	5750	µg/kg	<58.3								<11.0								<59.4								J								<12.4																							
Aroclor 1221	12000	260	335	µg/kg	<83.7								<15.8								<85.3								<17.8																															
Aroclor 1232	10000	220	325	µg/kg	<86.0								<16.2								<87.6								<18.3																															
Aroclor 1242	15000	310	344	µg/kg	<69.0								<13.0								<70.3								<14.7																															
Aroclor 1248	15000	310	343	µg/kg	<54.3								<10.3								<55.3								<11.5																															
Aroclor 1254	15000	320	346	µg/kg	<50.4								<9.5								<51.3								<10.7																															
Aroclor 1260	16000	330	347	µg/kg	<53.7								<10.2								<54.8								<11.4																															
<b>PAHs</b>																																																												
Acenaphthene	47000000	4100000	5020000	µg/kg	<646								<600								<1330								J								<140																							
Acenaphthylene (RBCr)	51000000	4200000	--	µg/kg	<571								<530								<1180								<124																															
Anthracene	350000000	23000000	25100000	µg/kg	<437								<405								<899								<94.6																															
Benz[a]anthracene	320000	1500	1600	µg/kg	<853								<792								<1760								<185																															
Benzo[b]fluoranthene	210000	1100	1610	µg/kg	<577								<536								<1190								<125																															
Benzo[k]fluoranthene	2100000	11000	16100	µg/kg	<839								<780								<1730								<182																															
Benzo[g,h,i]perylene (RBCr)	23000000	1800000	--	µg/kg	<659								<612								<1360								<143																															
Benzo[a]pyrene	21000	110	161	µg/kg	<591								<549								<1220								<128																															
Chrysene	21000000	110000	161000	µg/kg	<702								<652								<1450								<152																															
Dibenz[a,h]anthracene	21000	110	161	µg/kg	<722								<671								<1490								<157																															
Fluoranthene	30000000	2400000	3350000	µg/kg	<612								<568								<1260								<133																															
Fluorene	37000000	2900000	3350000	µg/kg	<582								<541								<1200								<126																															
Indeno[1,2,3-cd]pyrene	210000	1100	1610	µg/kg	<715								<664								<1470								<155																															
1-Methylnaphthalene	390000	24000	24600	µg/kg	J+				<444				5760				J+				<104																																							
2-Methylnaphthalene	4700000	310000	33500	µg/kg	J+				<531				7440				J+				<124																																							
Naphthalene	110000	2400	5010	µg/kg	J+				<479				5190				J+				<112																																							
Phenanthrene (RBCr)	35000000	23000000	--	µg/kg	J+				<776				2920				J+				<181																																							
Pyrene	34000000	2300000	2510000	µg/kg	<694								<645								<1430								<151																															
<b>VOCs</b>																																																												
1,1,1-Trichloroethane	640000	640000	54300000	µg/kg	<1.6								<2.2								<1.8								<1.5																															
1,1,2,2-Tetrachloroethane	28000	640	2720	µg/kg	<0.64								<0.85								<0.69								<0.60																															
1,1,2-Trichloroethane	6800	1200	6550	µg/kg	<1.1								<1.4								<1.2								<1.0																															
1,1-Dichloroethane	170000	3800	26000	µg/kg	<1.4								<1.8								<1.5								<1.3																															
1,1-Dichloroethene	1100000	240000	1480000	µg/kg	<2.0								<2.7								<1.5								<1.9																															
1,2,4-Trichlorobenzene	280000	24000	33600	µg/kg	<1.4								<1.8								<1.5								<1.3																															
1,2,4-Trimethylbenzene	220000	220000	867000	µg/kg	<2.6								<3.5								<2.9								<2.5																															
1,3,5-Trimethylbenzene	180000	180000	833000	µg/kg	<2.2								<2.9								<2.4								<2.1																															
1,2-Dichlorobenzene	380000	380000	6650000	µg/kg	<0.64								<0.85								<0.69								<0.60																															
1,2-Dichloroethane	22000	500	2990	µg/kg	<1.4								<1.9								<1.5								<1.3																															
1,2-Dichloropropane	71000	2700	12600	µg/kg	<0.78								<1.0								<0.85								<0.73																															
1,3-Dichlorobenzene	--	--	--	µg/kg	<0.71								<0.93								<0.76								<0.66																															
1,4-Dichlorobenzene	120000	2800	19900	µg/kg	<0.77								<1.0								<0.83								<0.72																															
2-Butanone (MEK)	28000000	28000000	58500000	µg/kg	<0.99								<1.3								<1.1								5.5								J																							
2-Hexanone	--	--	473000	µg/kg	<1.1								<1.4								<1.2								<1.0																															
4-Methyl-2-pentanone (MIBK)	3400000	3400000	278000000	µg/kg	<1.2								<1.6								<1.3								<1.1																															
Acetone	110000000	61000000	98600000	µg/kg	15.1								31.3								11.6								J								54.6																							
Benzene	54000	1200	6670	µg/kg	<0.94								2.2								J								1.5								J								<0.89															
Bromoform	910000	20000	77400	µg/kg	<0.72								<0.95								<0.78								<0.67																															
Bromomethane	32000	7300	43800	µg/kg	<2.0								<2.7								<2.2								<1.9																															
Carbon disulfide	740000	740000	4330000	µg/kg	<1.5								<2.0								<1.7								<1.4																															
Carbon tetrachloride	31000	700	4130	µg/kg	<1.9								<2.5								<2.0								<1.8																															
Chlorobenzene	760000	290000	1230000	µg/kg	<0.85								<1.1								<0.92								<0.79																															
Chlorodibromomethane	390000	8300	11600	µg/kg	<0.86								<1.6								<0.93								<1.1																															
Chloroethane (RBCr)	2100000	2100000	--	µg/kg	<2.3								<3.0								<2.5								<2.1																															
Chloroform	15000	340	2480	µg/kg	<1.6								<2.2								<1.8								<1.5																															
Chloromethane	500000	120000	927000	µg/kg	<1.8								<2.4								<2.0								<1.7																															
cis-1,2-Dichloroethene	80000	17000	219000	µg/kg	<1.3								<1.7								<1.4								<1.2																															
cis-1,3-Dichloropropene (RBCr)	--	--	--	µg/kg	<0.54								<0.72								<0.59								<0.73																															
Dichlorobromomethane	14000	310	2180	µg/kg	<0.86								<1.1								<0.93								<0.80																															

**Table 4. 2022 Phase II ESA Subsurface Surface (6'-14') Soil Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	Industrial Soil RBC	Residential Soil RBC	Recreational Soil RBC	SB-01 (6-7)				SB-02 (12-14)				SB-03 (10-12)				SB-04 (12-14)				
				Date:	1/11/2022				1/11/2022				1/11/2022				1/11/2022			
				Units	Dry Result				Dry Result				Dry Result				Dry Result			
Ethylbenzene	270000	6200	33300	µg/kg	<1.2				<1.6				<1.3				<1.1			
Isopropylbenzene	270000	270000	7280	µg/kg	<1.3				<1.7				<1.4				<1.2			
Methyl tert-butyl ether	2200000	50000	244000	µg/kg	<0.73				<0.96				<0.79				<0.68			
Methylene Chloride	3300000	58000	101000	µg/kg	<4.5				<6.0				<4.9				<4.3			
Naphthalene	110000	2400	5010	µg/kg	<1.0				<1.4				<1.1				<0.96			
Styrene	870000	870000	17300000	µg/kg	<1.6				<2.1				<1.7				<1.5			
Tetrachloroethene	170000	25000	146000	µg/kg	<1.9				<2.5				<2.0				<1.8			
Toluene	820000	820000	8370000	µg/kg	<1.1				<1.4				2.0	J			<1.0			
trans-1,2-Dichloroethene	320000	75000	478000	µg/kg	<1.4				<1.8				<1.5				<1.3			
trans-1,3-Dichloropropene (RBCr)	--	--	--	µg/kg	<1.1				<1.5				<1.2				<1.1			
Trichloroethene	20000	1000	5150	µg/kg	<1.6				<2.1				<1.7				<1.5			
Vinyl chloride	18000	61	66.1	µg/kg	<2.3				<3.1				<2.5				<2.2			
Xylenes, Total	260000	260000	4090000	µg/kg	<3.4				<4.6				<3.7				<3.2			
<b>Other</b>																				
Percent Moisture	--	--	--	%	13.9				8.5				15.2				19.1			

**Notes:**

RBC = Risk-based concentration for a recreator (rail trail user) using USEPA Regional Screening Level (RSL) generator on Mar 10, 2022 for HQ=1, Cancer Risk 1x10<sup>-6</sup> EF=250 days/yr, ET=4.0 hr/day.  
RBCr = In the absence of a recreator RBC, the residential soil RBC is used, as defined in the West Virginia Voluntary Remediation and Redevelopment Act Table 60-3B De Minimis, December 2021.

\*Arsenic soil RBC is the maximum published background concentration (VRP Guidance Manual, Table 3-3: Background Concentrations of Elements in WV Soils).

*Italic = indicates a laboratory reporting limit above one or more RBCs.*

< - Indicates analyte was not detected above Laboratory Method Detection Limit

J - indicates estimated result. The results is between the detection limit and the reporting limit.

J- - indicates estimated result, biased low.

J+ - indicates estimated result, biased high.

H1= Analysis conducted outside the EPA method holding time.

" ---" - No standard available

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

NA - Not analyzed

Highlighted and bold results - result is above the standard.

**TABLE 5. 2022 Phase II ESA Surface Water Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	Recreational Surface Water RBC	Category C RBC	BTAG RBC	Date:	SW-US (upstream)		SW-Trib (at tributary)		SW-Trib-DUP (field dup)		SW-DS (downstream)	
					1/12/2022		1/12/2022		1/12/2022		1/12/2022	
					Units							
<b>Metals</b>												
Arsenic	0.249	10	5	µg/L	<6.4		<6.4		NA		<6.4	
Barium	5190	--	4	µg/L	<b>36.4</b>		<b>60.2</b>		NA		<b>36.2</b>	
Cadmium	2.21	--	0.25	µg/L	<1.8		<1.8		NA		<1.8	
Chromium	--	--	85	µg/L	1.8	J	<1.3		NA		<1.3	
Lead	--	--	2.5	µg/L	<2.5		<2.5		NA		<2.5	
Mercury	4.3	0.15	0.026	µg/L	<0.20	J-, H1	<0.20	J-, H1	NA	J-, H1	<0.20	J-, H1
Selenium	217	--	1	µg/L	<9.2		<9.2		NA		<9.2	
Silver	127	--	3.2	µg/L	<2.6		<2.6		NA		<2.6	
<b>PAHs</b>												
Acenaphthene	412	990	5.8	µg/L	<0.62		<0.62		<0.59		<0.58	
Acenaphthylene	--	--	--	µg/L	<0.66		<0.65		<0.63		<0.62	
Anthracene	1170	40,000	0.012	µg/L	<0.68		<0.68		<0.65		<0.64	
Benzo[a]anthracene	0.841	0.018	0.018	µg/L	<0.80		<0.79		<0.76		<0.75	
Benzo[b]fluoranthene	0.841	0.018	--	µg/L	<0.78		<0.77		<0.74		<0.72	
Benzo[k]fluoranthene	8.41	0.018	--	µg/L	<0.75		<0.74		<0.71		<0.70	
Benzo[g,h,i]perylene	--	--	--	µg/L	<0.83		<0.82		<0.79		<0.77	
Benzo[a]pyrene	0.0841	0.018	--	µg/L	<0.79		<0.78		<0.75		<0.74	
Chrysene	84.1	0.018	--	µg/L	<0.83		<0.82		<0.79		<0.77	
Dibenz[a,h]anthracene	0.0841	0.018	--	µg/L	<0.79		<0.78		<0.75		<0.74	
Fluoranthene	1830	370	0.04	µg/L	<0.74		<0.73		<0.75		<0.69	
Fluorene	211	5300	3	µg/L	<0.64		<0.63		<0.61		<0.59	
Indeno[1,2,3-cd]pyrene	0.841	0.018	--	µg/L	<0.73		<0.72		<0.69		<0.68	
1-Methylnaphthalene	1.4	--	2.1	µg/L	<0.60		<0.60		<0.57		<0.56	
2-Methylnaphthalene	27.5	--	4.7	µg/L	<0.61		<0.61		<0.58		<0.57	
Naphthalene	0.641	--	1.1	µg/L	<0.69		<0.69		<0.66		<0.65	
Phenanthrene	--	--	0.4	µg/L	<0.69		<0.68		<0.65		<0.64	
Pyrene	73.6	4000	0.025	µg/L	<0.79		<0.78		<0.75		<0.73	
<b>VOCs</b>												
1,1,1-Trichloroethane	200	--	11	µg/L	<0.38		<0.38		NA		<0.38	
1,1,2,2-Tetrachloroethane	0.08	11	610	µg/L	<0.47		<0.47		NA		<0.47	
1,1,2-Trichloroethane	5	--	1200	µg/L	<0.33		<0.33		NA		<0.33	
1,1-Dichloroethane	2.8	--	47	µg/L	<0.24		<0.24		NA		<0.24	
1,1-Dichloroethene	5	3.2	25	µg/L	<0.24		<0.24		NA		<0.24	
1,2,4-Trichlorobenzene	70	--	24	µg/L	<0.73		<0.73		NA		<0.73	
1,2,4-Trimethylbenzene	56	--	33	µg/L	<0.63		<0.63		NA		<0.63	
1,3,5-Trimethylbenzene	60	--	71	µg/L	<0.45		<0.45		NA		<0.45	
1,2-Dichlorobenzene	600	17	0.7	µg/L	<0.38		<0.38		NA		<0.38	
1,2-Dichloroethane	5	99	100	µg/L	<0.33		<0.33		NA		<0.33	
1,2-Dichloropropane	5	--	--	µg/L	<0.28		<0.28		NA		<0.28	
1,3-Dichlorobenzene	--	--	150	µg/L	<0.45		<0.45		NA		<0.45	
1,4-Dichlorobenzene	75	--	26	µg/L	<0.48		<0.48		NA		<0.48	
2-Butanone (MEK)	5600	--	14000	µg/L	<1.5		<1.5		NA		<1.5	
2-Hexanone	--	--	99	µg/L	<0.58		<0.58		NA		<0.58	
4-Methyl-2-pentanone (MIBK)	1200	--	170	µg/L	<0.42		<0.42		NA		<0.42	
Acetone	14000	--	1500	µg/L	<5.6	UJ	<5.6	UJ	NA		<5.6	UJ
Benzene	5	51	370	µg/L	<0.34		<0.34		NA		<0.34	
Bromoform	80	140	320	µg/L	<0.56	UJ	<0.56	UJ	NA		<0.56	UJ
Bromomethane	7.5	--	--	µg/L	<0.73	UJ	<0.73	UJ	NA		<0.73	UJ
Carbon disulfide	810	--	0.92	µg/L	<0.32		<0.32		NA		<0.32	
Carbon tetrachloride	5	4.4	13.3	µg/L	<0.44		<0.44		NA		<0.44	
Chlorobenzene	100	21	1.3	µg/L	<0.26		<0.26		NA		<0.26	
Chlorodibromomethane	80	--	--	µg/L	<0.43		<0.43		NA		<0.43	
Chloroethane	21000	--	--	µg/L	<0.64	UJ	<0.64	UJ	NA		<0.64	UJ
Chloroform	80	470	1.8	µg/L	<0.39		<0.39		NA		<0.39	
Chloromethane	190	--	--	µg/L	<0.40		<0.40		NA		<0.40	
cis-1,2-Dichloroethene	70	--	--	µg/L	<0.38		<0.38		NA		<0.38	
cis-1,3-Dichloropropene	--	--	--	µg/L	<0.29		<0.29		NA		<0.29	
Dichlorobromomethane	80	17	--	µg/L	<0.43		<0.43		NA		<0.43	
Ethylbenzene	700	29	90	µg/L	<0.40		<0.40		NA		<0.40	
Isopropylbenzene	450	--	2.6	µg/L	<0.47		<0.47		NA		<0.47	

**TABLE 5. 2022 Phase II ESA Surface Water Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	Recreational Surface Water RBC	Category C RBC	BTAG RBC	SW-US (upstream)		SW-Trib (at tributary)		SW-Trib-DUP (field dup)		SW-DS (downstream)	
				Date:	1/12/2022	1/12/2022	1/12/2022	1/12/2022	1/12/2022		
				Units							
Methyl tert-butyl ether	14	--	11070	µg/L	<0.25		<0.25		NA		<0.25
Methylene Chloride	5	590	98.1	µg/L	<0.64		<0.64		NA		<0.64
Styrene	100	--	72	µg/L	<0.33		<0.33		NA		<0.33
Tetrachloroethene	5	8.85	111	µg/L	<0.39		<0.39		NA		<0.39
Toluene	1000	200	2	µg/L	<0.32		<0.32		NA		<0.32
trans-1,2-Dichloroethene	100	--	970	µg/L	<0.28		<0.28		NA		<0.28
trans-1,3-Dichloropropene	--	--	--	µg/L	<0.32		<0.32		NA		<0.32
Trichloroethene	5	81	21	µg/L	<0.29		<0.29		NA		<0.29
Vinyl chloride	2	525	930	µg/L	<0.29		<0.29		NA		<0.29
Xylenes, Total	10000	--	13	µg/L	<1.4		<1.4		NA		<1.4

**Notes:**

BTAG RBC= Biological Technical Assistance Group (BTAG) Ecological Screening Benchmarks

Groundwater RBC derived from the West Virginia Voluntary Remediation and Redevelopment Act Table 60-3B De Minimis, December 2021.

Recreational RBC = Risk-based concentration for a recreator (rail trail user) using USEPA Regional Screening Level (RSL) generator on Mar 10, 2022 for HQ=1, Cancer Risk  $1 \times 10^{-6}$ , EF=250

Category C = Risk-based concentration defined as WV Requirements Governing Water Quality Standards 47CSR2, Category C - Water contact recreation

*Italic* = indicates a laboratory reporting limit above one or more RBCs.

< - Indicates analyte was not detected above Laboratory Method Detection Limit

J - indicates estimated result between the detection limit and the reporting limit

J- - indicates estimated result, biased low.

UJ - indicates non-detect result is estimated due to low bias in the laboratory analytical system.

" ---" - No standard available

µg/L- micrograms per liter

NA - Not analyzed

Highlighted and bold results - result is above the standard.

1c= A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

L1= Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

H1= Analysis conducted outside the EPA method holding time.

2c= The analyte did not meet the method recommended minimum RF.

CL= The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

L2=Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

ML= Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

**Table 6. 2022 Phase II ESA Sediment Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	BTAG RBC Sediment		SED-US (upstream)		SED-Trib (at tributary)		SED-DS (downstream)	
		Date:	1/12/2022		1/12/2022		1/12/2022	
		Units	Dry Result		Dry Result		Dry Result	
<b>Metals</b>								
Arsenic	9.8	mg/kg	11.3		9.1		8.5	J
Barium	--	mg/kg	175		204		160	
Cadmium	0.99	mg/kg	0.49	J	0.53	J	0.59	J
Chromium	43.4	mg/kg	19.1		20.5		18.1	
Lead	35.8	mg/kg	35		139		27.6	
Mercury	0.18	mg/kg	0.1	J-, H1	0.21	J-, H1	0.1	J-, H1
Selenium	2	mg/kg	3.6	J	4.8	J	2.4	J
Silver	1	mg/kg	22.3		16.6		19.2	
<b>PCBs</b>								
Aroclor 1016	59.8	µg/kg	<87.9		<148		<97.2	
Aroclor 1221	59.8	µg/kg	<126		<214		<140	
Aroclor 1232	59.8	µg/kg	<130		<219		<143	
Aroclor 1242	59.8	µg/kg	<104		<176		<115	
Aroclor 1248	59.8	µg/kg	<81.9		<139		<90.6	
Aroclor 1254	59.8	µg/kg	<75.9		<129		<84.0	
Aroclor 1260	59.8	µg/kg	<53.8		<137		<89.7	
<b>PAHs</b>								
Acenaphthene	6.7	µg/kg	<1920		<1650		<1080	
Acenaphthylene	5.9	µg/kg	<1700		<1450		<957	
Anthracene	57.2	µg/kg	<1300		<1110		<732	
Benzo[a]anthracene	108	µg/kg	<2540		2760	J	<1430	
Benzo[b]fluoranthene	27.2	µg/kg	<1720		4890		<969	
Benzo[k]fluoranthene	240	µg/kg	<2500		4070	J	<1410	
Benzo[g,h,i]perylene	--	µg/kg	<1960		4070	J	<1110	
Benzo[a]pyrene	170	µg/kg	<1760		2440	J	<991	
Chrysene	166	µg/kg	<2090		3190	J	<1180	
Dibenz[a,h]anthracene	33	µg/kg	<2150		<1840		<1210	
Fluoranthene	423	µg/kg	<1820		6900		<1030	
Fluorene	77.4	µg/kg	<1730		<1480		<977	
Indeno[1,2,3-cd]pyrene	17	µg/kg	<2130		<1820		<1200	
1-Methylnaphthalene	--	µg/kg	<1420		<1220		<801	
2-Methylnaphthalene	20.2	µg/kg	<1700		<1450		<958	
Naphthalene	176	µg/kg	<1530		<1310		<865	
Phenanthrene	204	µg/kg	<2490		4300	J	<1400	
Pyrene	195	µg/kg	<2070		5440		<1170	

**Table 6. 2022 Phase II ESA Sediment Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	BTAG RBC Sediment		SED-US (upstream)	SED-Trib (at tributary)	SED-DS (downstream)
		Date:	1/12/2022	1/12/2022	1/12/2022
		Units	Dry Result	Dry Result	Dry Result
<b>Other</b>					
Percent Moisture	--	%	42.8	32.4	48.7

**Notes:**

BTAG RBC= Biological Technical Assistance Groupo (BTAG) Ecological Screening Benchmarks (2006).

*Italic = indicates a laboratory reporting limit above one or more RBCs.*

\*Arsenic soil RBC is the maximum published background concentration (VRP Guidance Manual, Table 3-3: Background Concentrations of Elements in WV Soils).

< - Indicates analyte was not detected above Laboratory Method Dectection Limit

J - indicates estimated result. The results is between the detection limit and the reporting limit.

J- - indicates estimated result, biased low.

" ---" - No standard available

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

NA - Not analyzed

Highlighted and bold results - result is above the standard.

MH= Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits.

Result may be biased

H1= Analysis conducted outside the EPA method holding time.

**Table 7. 2022 Phase II ESA SPLP VOC Subsurface Surface (6'-14') Soil Data  
City of Fairmont - West Fork River Trail  
Fairmont, West Virginia**

Analyte Name	Groundwater RBC	VISL Commercial RBC	VISL Residential RBC	VOC SPLP								
				Date:	SB-01 (6-7)		SB-02 (12-14)		SB-03 (10-12)		SB-04 (12-14)	
				Units	1/11/2022		1/11/2022		1/11/2022		1/11/2022	
					Dry Result	Dry Result		Dry Result		Dry Result		
Benzene	5	57.9	13.8	µg/L	<8.7	<i>J-, H2</i>	<8.7	<i>J-, H2</i>	<8.7	<i>J-, H2</i>	<8.7	<i>J-, H2</i>
2-Butanone (MEK)	1200	941000	224000	µg/L	<9.1	<i>J-, H2</i>	<9.1	<i>J-, H2</i>	<9.1	<i>J-, H2</i>	<9.1	<i>J-, H2</i>
Carbon tetrachloride	5	18.1	4.15	µg/L	<17.2	<i>J-, H2</i>	<17.2	<i>J-, H2</i>	<17.2	<i>J-, H2</i>	<17.2	<i>J-, H2</i>
Chlorobenzene	100	172	41	µg/L	<7.8	<i>J-, H2</i>	<7.8	<i>J-, H2</i>	<7.8	<i>J-, H2</i>	<7.8	<i>J-, H2</i>
Chloroform	80	35.5	8.14	µg/L	<15.0	<i>J-, H2</i>	<15.0	<i>J-, H2</i>	<15.0	<i>J-, H2</i>	<15.0	<i>J-, H2</i>
1,2-Dichloroethane	5	63.6	15.1	µg/L	<12.9	<i>J-, H2</i>	<12.9	<i>J-, H2</i>	<12.9	<i>J-, H2</i>	<12.9	<i>J-, H2</i>
1,1-Dichloroethene	7	334	76.4	µg/L	<18.6	<i>J-, H2</i>	<18.6	<i>J-, H2</i>	<18.6	<i>J-, H2</i>	<18.6	<i>J-, H2</i>
Tetrachloroethene	5	24.2	5.76	µg/L	<17.3	<i>J-, H2</i>	<17.3	<i>J-, H2</i>	<17.3	<i>J-, H2</i>	<17.3	<i>J-, H2</i>
Trichloroethene	5	2.18	0.518	µg/L	<14.7	<i>J-, H2</i>	<14.7	<i>J-, H2</i>	<14.7	<i>J-, H2</i>	<14.7	<i>J-, H2</i>
Vinyl chloride	2	24.5	1.47	µg/L	<21.5	<i>J-, H2</i>	<21.5	<i>J-, H2</i>	<21.5	<i>J-, H2</i>	<21.5	<i>J-, H2</i>

**Notes:**

VISL RBCs =EPA's Vapor Intrusion Screening Level (VISL) Calculator ([https://epa-visl.ornl.gov/cgi-bin/visl\\_search](https://epa-visl.ornl.gov/cgi-bin/visl_search)), accessed March 2022.

Groundwater RBC = Risk-based concentration for Ground Water as defined in the West Virginia Voluntary Remediation and Redevelopment Act Table 60-3B De Minimis, December 2021.

*Italic = indicates a laboratory reporting limit above one or more RBCs.*

< - Indicates analyte was not detected above Laboratory Method Detection Limit.

*J-, H2*= SPLP extraction conducted outside EPA method holding time, results should be considered estimated, biased low.

µg/L- micrograms per liter

Highlighted and bold results - result is above the standard.

List of VOCs limited to those compounds characterized as hazardous waste.

**APPENDIX A**



**RIGHT OF ENTRY AGREEMENT**

The property owner(s) (referred to in this Agreement as the "Owner(s)") have the sole right to possession of the property for which a right of entry is granted by this document. The property is located at:

Industrial Contracting Road  
Fairmont, Marion County, West Virginia  
Tax Parcels 24-03-0008-0023-0000 & 24-03-0008-0140-0000

The property is owned by:

Wayne H. Stanley  
Industrial Resources Inc.  
PO Box 2648, Fairmont, WV 26555

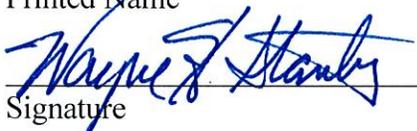
The Owner(s) give City of Fairmont, WV (the Licensee) its agents, contractors, subcontractors, employees, and assigns, the right to enter upon the property for the purposes of:

*Advancing soil borings to obtain soil samples for analytical testing. Collection of surface water and sediment samples for analytical testing. The purpose of the environmental sampling is to evaluate chemical concentrations in soil and surface water to confirm environmental conditions. Environmental Standards, Inc. will notify the owner when the on-property work is scheduled. Copies of the findings will be made available to the Owner(s) upon request.*

This Agreement is effective immediately upon signing. Licensee agrees to repair damage to the property resulting from entry onto the property by Licensee, its agents, contractors, subcontractors, employees, or assigns, by restoring the property, as much as reasonably possible, to its condition immediately prior to the entry.

Dated this 21 day of September 2021.

"Owner(s)"

WAYNE H. STANLEY  
Printed Name  
  
Signature  
CEO  
Title  
304-669-0303  
Contact Phone Number

Valerie Means  
Printed Name  
  
Signature  
City Manager  
Title  
(304) 366-6212  
Contact Phone Number

"Licensee"

**APPENDIX B**



DRILLING COMPANY: GEO ENVIRONMENTAL

DATE COMPLETED: 1/11/22

DRILL RIG: HOLLOW STEM AUGER, TRAC MOUNT

WATER DEPTH NA

DRILLING METHOD: HSA

LOGGED BY: L. MISTICK, K. MORTON

TOTAL DEPTH: 14'

TOIC ELEVATION:

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0		0.0		4" SOIL AND ORGANICS	SAMPLED @ 1055
1				6" BLACK GRAVELLY FILL, APPEARS TO BE COAL WASTE	
2		0.0		8" BLACK GRAVELLY FILL/ COAL WASTE	
3					
4		0.0		2" BROWN SILT	
5				15" BLACK GRAVELLY FILL/COAL WASTE	
6					
7		0.0		16" BROWN CLAY WITH BLACK FILL INTERSPERSED, SOME BROWN SAND	
8					
9		0.0		23" BROWN CLAY WITH INTERMITTENT BLACK SHALE/ COAL FILL FRAGMENTS, MORE CONCENTRATED AT TOP	
10				1" LIGHT COLORED SAND	
11		0.4		1/2" LIGHT SAND	SAMPLED @ 1125
12				1/2" BROWN CLAY	
13		0.1		20" BLACK SHALE/COAL FILL WITH INTERSP. RED CLAY	
14				18' BLACK GRAVELLY FILL/ COAL WASTE	
15				TERMINATED AT 14'	
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

BGS = BELOW GROUND SURFACE  
 TOIC = TOP OF INNER CASING  
 TOC = TOP OF CASING  
 M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:
PROJECT NO.:	
DRAWN BY:	APRVD BY:
CHEK'D BY:	REVISION:



DRILLING COMPANY: GEO ENVIRONMENTAL

DATE COMPLETED: 1/11/22

DRILL RIG: HOLLOW STEM AUGER, TRAC MOUNT

WATER DEPTH NA

DRILLING METHOD: HSA

LOGGED BY: L. MISTICK, K. MORTON

TOTAL DEPTH: 14'

TOIC ELEVATION:

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0		0.0		22" BLACK COAL AND SHALE FILL, SOME GRAVEL	SAMPLED @ 1150
1					
2		0.0		22" BLACK COAL AND SHALE FILL, SOME BROWN CLAY	
3					
4		0.0		14" DARK GREY, GRAVELLY CLAY	WET
5					
6		0.0		4" BROWN CLAY 4" BROWN SANDY CLAY, INTERMITTENT ROCKS 11" BLACK FILL/COAL WASTE	
7					
8		0.0		23" BROWN CLAY WITH INTERMITTENT BLACK SHALE/ COAL FILL FRAGMENTS, MORE CONCENTRATED AT TOP 1" LIGHT COLORED SAND	
9					
10		0.0		24" INTERMINGLED ORANGE CLAY AND BLACK FILL MATERIAL	
11					
12		0.1		12" ORANGE CLAY, LIGHLY INTERSPERSED WITH BLACK FILL FRAGMENTS	SAMPLED @ 1215
13					
14				TERMINATED AT 14'	
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

BGS = BELOW GROUND SURFACE  
TOIC = TOP OF INNER CASING  
TOC = TOP OF CASING  
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:
PROJECT NO.:	
DRAWN BY:	APRVD BY:
CHEK'D BY:	REVISION:



DRILLING COMPANY: GEO ENVIRONMENTAL

DATE COMPLETED: 1/11/22

DRILL RIG: HOLLOW STEM AUGER, TRAC MOUNT

WATER DEPTH NA

DRILLING METHOD: HSA

LOGGED BY: L. MISTICK, K. MORTON

TOTAL DEPTH: 7.5'

TOIC ELEVATION:

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0				1" ORGANICS (GRASS, STICKS)	SAMPLED @ 1245
1		0.0		18" SANDY CLAY WITH ROCKS	
2				3" LIGHT COLORED SAND	
2				5" SAND AND ROCKS	
3		0.0			
4				18" BROWN SANDY CLAY WITH GLASS, ROCK, AND GRAVEL FRAGMENTS	
5		0.0			
6				10" DARK BROWN SANDY CLAY WITH GLASS FRAGMENTS	SAMPLED @ 1320
7		0.0			
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

AUGER REFUSAL AT 7.5'

BGS = BELOW GROUND SURFACE  
TOIC = TOP OF INNER CASING  
TOC = TOP OF CASING  
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:
PROJECT NO.:	
DRAWN BY:	APRVD BY:
CHEK'D BY:	REVISION:



DRILLING COMPANY: GEO ENVIRONMENTAL

DATE COMPLETED: 1/11/22

DRILL RIG: HOLLOW STEM AUGER, TRAC MOUNT

WATER DEPTH NA

DRILLING METHOD: HSA

LOGGED BY: L. MISTICK, K. MORTON

TOTAL DEPTH: 14'

TOIC ELEVATION:

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0				7" ORGANICS (GRASS, STICKS)	SAMPLED @ 1345
1		0.0		10" SAND AND SANDY CLAY WITH ROCKS SAND IS DARKEST AT TOP, BECOMES LIGHTER WITH DEPTH	
2				6" RED SAND AND BLACK FILL MATERIAL FRAGMENTS	
3		0.0			
4				2.5" RED SAND AND FRAGMENTS (BRICK?) MIXED INTO ORGANICS	
5		0.0		17.5" BLACK CRUSHED COAL WASTE FILL MATERIAL	
6				6" CRUSHED BLACK COAL WASTE FILL MATERIAL	
7		0.0		6" HARD DRY CLAY (LIGHT COLOR), SOME ROCKS	
8				7" CRUSHED GREY SHALE/ROCK	
9		0.0		16" CRUSHED GREY SHALE/ROCK FILL MATERIAL	
10				17" HARD, LIGHT-COLORED DRY, SANDY CLAY	
11		0.0			
12				18" ROCKY SAND, LIGHT COLORED	SAMPLED @ 1405
13		0.0			
14				TERMINATED AT 14'	
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

BGS = BELOW GROUND SURFACE  
 TOIC = TOP OF INNER CASING  
 TOC = TOP OF CASING  
 M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:
PROJECT NO.:	
DRAWN BY:	APRVD BY:
CHEK'D BY:	REVISION:



**APPENDIX C**



1-11-22 West Fork River

SB-03 @ roadway S of

Large property

0-2 0" recovery -6"  
top 4" black (O.O.)

soil gravelly

(1055) SAND

2-4 8" black gravelly  
SAND O.O.

no odor

4-6' 17" 2" brown

silt

15" black

shale

O.O ppm

6-8'

16" brown clay  
w/ black &

brown sand

O.O

8-10'

brown clay

w/ 1" black

shale @ top

~ trace amts of

SAND at bottom

Scale: 1 square =

SB-03 cont'd

10-12'

white sand 1/2"

1/2" clay on

2"

rest all black

shale w/

(O.O) some red clay

0.4 ppm

12-14'

black shale

18" 0.1 ppm

Sampled 10-12' @

1125

SB-04

11:50 sample time

0-2'

0.0 ppm

22" black coal/  
shale fill

0-4'

22"

black coal/  
shale fill w/

0.0

some minor

clay contrib.

Scale: 1 square =

Rate in the Rain

SB-04 cont'd 11/1/22

4-6' wet dark grey  
14" gummy clay  
0.0 pid

6-8' 19" 4" brown clay  
4" Rocky tan  
w/ sand  
remainder black  
loam fill (0.1)

8-10' 18" 10" black fill  
on top of  
0.0 8" orange clay

10-12'  
24" full orange clay w/  
black fill  
0.0 interspersed  
pid

12-14'  
1" fell out of tube  
orange clay &  
black fill intersp  
Sample @ 1215

Scale: 1 square = \_\_\_\_\_

SB-01

0-2' 22" 1" organics  
0.0 pid 18" rocky tan  
clay w/ sand  
rocks  
~3" sand

1245 SAMPLE  
2-4' 5"  
sand & rocks  
0.0 pid

4-6'  
18" sandy clay w/  
glass frags &  
0.0 rocks / gravel  
6-7' 10" sandy  
clay w/ glass  
0.0 pid frags (dark  
color)

BAR ref. @ 7.5'  
6-7 Sample @ 1320

Scale: 1 square = \_\_\_\_\_

Rite in the Rain

SB-02

11/11/22

0-2'

sampled @ 1345

17"

7" organics

10" gritty sand

sandy clay

0.0

dark to light

brown w/

rocks

2-4'

6" red sand #

0.0

frags

4-6'

20" 2.5" red

frags & organic

remainder black

0.0

pid

crushed fill/coal  
(some red frags)

6-8'

19" 6" crushed fill

0.0  
pid

6" hard dry clay w/  
rock

7" crushed grey  
rock/shale

8-10'

16" crushed rock

& gravel fill

(grey)

0.0



Scale: 1 square = \_\_\_\_\_

SB-02 cont'd

10-12' 17"

hard, light colored

0.0, dry clay, sandy

12-14'

1405 sampled

18" sandy, rocky  
light colored

Scale: 1 square = \_\_\_\_\_

Write in the Rain

1/11/22

0745 mod to Site  
0925 on Site // make botty sets  
1055 SB-03 (0-2)  
1125 SB-03 (10-12)  
1150 SB-04 (0-2)  
1215 SB-04 (12-14)  
1245 SB-01 (0-2)  
1320 SB-01 (0-7)  
1345 SB-02 (0-2)  
1405 SB-02 (12-14)  
1610 get Ice / pack coolers  
1620 organize coolers - fillout chain  
1645 end day

\* see LM notes  
for soil characterization

Kmm  
1/11/22

1/12/22

0745 Mob to Site

0930 on Site

0945 SW-US

0955 Sed-US

1010 SW-ds

1015 Sed-ds

1030 SW-Trib → dup on SVOLS only

1035 Sed-Trib

1050 SB-05 (ms/ms10)

1100 SB-06

1115 mob to office / get Ice

1300 @ office, Pack coolers, fill out chairs  
timesheet, Expense report

\* see LM notes  
for Soil Characterization

KMM 1/12/22

**From:** [Kelsey Morton](#)  
**To:** [Megan Smetanka](#); [Tonya Hironimus](#)  
**Cc:** [Leah Mistick](#)  
**Subject:** RE: BOTTLE ORDER: West Fork River Trail Project  
**Date:** Thursday, January 13, 2022 4:41:55 PM  
**Attachments:** [image003.png](#)  
[image007.png](#)  
[image011.png](#)  
[Tables\\_WFRT Phase II report.pdf](#)  
[image001.png](#)  
[Phase II Sample COC.pdf](#)  
**Importance:** High

---

Hi All,

I was reviewing our sampling plan and noticed that we added new parameters after we received our initial quote. Is it possible to add PCBs for all samples and Herbicides for our surface Sample (SB-03(0-2) and SB-04(0-2)) subsurface samples (SB-03(10-12) and SB-04(12-14)). I have attached our analytical summary for reference. Are these parameters able to be added for what we have already sampled that were picked up today? Please let me know ASAP. I have also attached the COC- I can send a revised COC if necessary.

Also please keep in mind that these also require SPLP.

Here are all the requirements from our SAP:

**All samples will be analyzed for the list of parameters specified on Table 2, SAP Analytical Summary, including:**

- VOCs in subsurface soils and SPLP.
- Metals in surface soil, subsurface soil, surface water, sediment, and SPLP.
- Herbicides in surface soil and subsurface soil, and SPLP in areas around the historic railroad.
- PAHs in surface soil, subsurface soil, surface water, sediment, and SPLP.
- PCBs in surface soil, subsurface soil, sediment, and SPLP.

Sorry about the confusion, please let me know if there is anything I can do to help!

Kelsey Morton  
Staff Geoscientist II  
**Environmental Standards, Inc.**  
814.449.0221(cell) • [www.envstd.com](http://www.envstd.com) • [kmorton@envstd.com](mailto:kmorton@envstd.com)

**Emergency Response Quality Assurance Hotline: 855.374.7272**



---

**From:** Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>  
**Sent:** Tuesday, January 11, 2022 3:43 PM

**To:** Kelsey Morton <kmorton@envstd.com>; Tonya Hironimus <Tonya.Hironimus@pacelabs.com>  
**Cc:** Leah Mistick <lmistick@envstd.com>  
**Subject:** RE: BOTTLE ORDER: West Fork River Trail Project

This sender is trusted.

Hi Kelsey,

I have moved your pick up to Thursday.

Thanks,

**Megan Smetanka**  
Project Manager | Environmental Sciences  
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601  
o: 724-850-5614 | [pacelabs.com](http://pacelabs.com)



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---

**From:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Sent:** Tuesday, January 11, 2022 3:21 PM  
**To:** Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>; Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>  
**Subject:** RE: BOTTLE ORDER: West Fork River Trail Project

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Thanks Megan,

We will go ahead and cancel tomorrow's pick up and move it to Thursday (1/13). We didn't finished as much as we hoped.

Thanks again,  
Kelsey

----- Original message -----

From: Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>  
Date: 1/11/22 7:58 AM (GMT-05:00)  
To: Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>, Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>  
Cc: Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>  
Subject: RE: BOTTLE ORDER: West Fork River Trail Project

Hi Kelsey,

I apologize for the delay, attached is a copy of our electronic chain of custody. As for the surface water samples, the 250ml nitric bottle is the correct bottle for total metals. I also have scheduled your pick up at 1 Chartiers Place Pittsburgh, PA 15205 on Wednesday 1/12. Just let me know if you need to change the pick up or schedule one for Thursday 1/13.

Thanks,

**Megan Smetanka**  
Project Manager | Environmental Sciences  
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601  
o: 724-850-5614 | [pacelabs.com](http://pacelabs.com)



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[Online Bill Pay](#)

---

**From:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Sent:** Monday, January 10, 2022 10:46 AM  
**To:** Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>  
**Subject:** RE: BOTTLE ORDER: West Fork River Trail Project

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Hi Megan/Tonya,

I have a few questions regarding this bottle order for West Fork River Trail–

- I was going through this bottle order and didn't see a chain; would you be able to send me an electronic copy that I can print out?
- Our surface water metals are supposed to be total metals, not dissolved- are we still able to use the 250 nitric bottles for Total metals? I can update this on the COC once we receive one.
- We would also like to set up a carrier for these samples. We will be collecting tomorrow

(1/11/22). We are not sure if we will finish everything in one day so we might be sampling into the next day 1/12. Could we get on the schedule for 1/12 and I can send you an update tomorrow if we need to push it back a day? Or if necessary, we can schedule for 1/13

- The samples can be picked up at either of the following locations. let me know which address works better for your schedule
  - 361 Twin Hills Rd Grindstone, PA 15442
  - Or
  - 1 Chartiers Place Pittsburgh, PA 15205

Let me know if you have any questions!

Thank you,

Kelsey Morton  
Staff Geoscientist II  
**Environmental Standards, Inc.**  
814.449.0221(cell) • [www.envstd.com](http://www.envstd.com) • [kmorton@envstd.com](mailto:kmorton@envstd.com)

**Emergency Response Quality Assurance Hotline: 855.374.7272**



---

**From:** Kelsey Morton  
**Sent:** Wednesday, December 22, 2021 11:14 AM  
**To:** Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>; Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>; Lydia Work <[lwork@envstd.com](mailto:lwork@envstd.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>  
**Subject:** RE: BOTTLE ORDER: West Fork River Trail Project

Thanks, Tonya!

Yes, our plan is to collect January 11-12. 10 business day TAT works for us.

Could you please have the bottle order shipped to my home address -

Kelsey Morton  
1 Chartiers Place  
Pittsburgh, PA 15205

Thank you!

Kelsey Morton  
Staff Geoscientist II  
**Environmental Standards, Inc.**

814.449.0221(cell) • [www.envstd.com](http://www.envstd.com) • [kmorton@envstd.com](mailto:kmorton@envstd.com)

**Emergency Response Quality Assurance Hotline: 855.374.7272**



---

**From:** Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>

**Sent:** Wednesday, December 22, 2021 11:07 AM

**To:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>; Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>; Lydia Work <[lwork@envstd.com](mailto:lwork@envstd.com)>

**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>

**Subject:** BOTTLE ORDER: West Fork River Trail Project

Kelsey,

Thank you for that information. We will work on getting the bottle order for Option 2 (quote attached) to you. Am I correct that you are still sampling January 11-12? And you are still looking at a 10 business day TAT?

Megan,

Can you please have the lab look into these limits and double check everything? Can you please also submit this bottle order to be at Environmental Standards prior to their sampling date?

Thank you!

**Tonya Hironimus**

Senior Account Executive

[1638 Roseytown Rd.](#), Suites 2,3&4

[Greensburg, PA 15601](#)

[717.497.6938](tel:717.497.6938) (Phone) | [724.850.5601](tel:724.850.5601) (Fax)

Rapid Response Line: [877-859-7778](tel:877-859-7778)



Pace will be closed from 5:00 p.m. Thursday, December 23<sup>rd</sup> through 8:00 a.m. Monday, December 27<sup>th</sup> and 5:00 p.m. Thursday, December 30<sup>th</sup> through 8:00 a.m. Monday, January 3 in observation of the holidays. **We will not be accepting Fed-Ex deliveries during those dates. Please be aware of short hold times when sampling. If any special arrangements need made, please contact your project manager.**

---

**From:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>

**Sent:** Wednesday, December 22, 2021 9:40 AM

**To:** Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>; Lydia Work <[lwork@envstd.com](mailto:lwork@envstd.com)>

**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>;  
Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>

**Subject:** RE: West Fork River Trail Project

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Thanks for your response, Justin!

We are good to proceed with the bottle order – we would like to go with option 2.

Thank you and happy holidays,

Kelsey Morton

Staff Geoscientist II

**Environmental Standards, Inc.**

814.449.0221(cell) • [www.envstd.com](http://www.envstd.com) • [kmorton@envstd.com](mailto:kmorton@envstd.com)

**Emergency Response Quality Assurance Hotline: 855.374.7272**



---

**From:** Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>

**Sent:** Friday, December 17, 2021 4:01 PM

**To:** Lydia Work <[lwork@envstd.com](mailto:lwork@envstd.com)>; Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>

**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>;  
Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>

**Subject:** RE: West Fork River Trail Project

Hey Lydia!

I hope all is well. Long time since we talked.

I understand your hesitation on this, but I can assure you that things have changes in Beaver. Since the issues, that I am sure you remember, they were added to Pace's LIMS system. We are currently providing several clients full level IV data packages, without any issues at all. I do not foresee any issues with your project here.

This project would be managed out of Greensburg with the metals going to Beaver, which is basically acting as another department of the Greensburg lab.

I hope this clears things up for you. Let me know if you still want to discuss. I would be happy to.

Have a great weekend.

Justin

  
**Justin Hall**  
Director of Sales-Northeast  
M: 717.377.5423 | [pacelabs.com](http://pacelabs.com)



---

**From:** Lydia Work <[lydia.work@envstd.com](mailto:lydia.work@envstd.com)>  
**Sent:** Friday, December 17, 2021 3:09 PM  
**To:** Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>; Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>;  
Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>  
**Subject:** RE: West Fork River Trail Project

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Hi, Justin-

Hope all is well with you and thank you for jumping in.

You may be aware that we have had a number of issues with Stage 4 deliverables. This project will require full data validation. If the metals are to be analyzed by Beaver, I need assurance they can produce a complete Stage 4 data package.

Please let me know if we need to discuss my concern.

Thank you,

Lydia M. Work, LRS  
Principal Chemist  
**Environmental Standards, Inc.**  
(o) 610.935.5577 ext. 406 • (m) 304.552.1442

---

**From:** Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>  
**Sent:** Friday, December 17, 2021 10:30 AM  
**To:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>;  
Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>; Lydia Work <[lydia.work@envstd.com](mailto:lydia.work@envstd.com)>  
**Subject:** Re: West Fork River Trail Project

Thanks Kelsey.

Lydia, please let me know how I can help.

Justin Hall  
Director of Sales-Northeast  
[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)  
(717) 377-5423

On Dec 17, 2021, at 10:26, Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)> wrote:

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Hi Justin!

I have copied Lydia Work on this email chain as she has some questions moving forward with this project.

Thanks,  
Kelsey Morton  
Staff Geoscientist II  
**Environmental Standards, Inc.**  
814.449.0221(cell) • [www.envstd.com](http://www.envstd.com) • [kmorton@envstd.com](mailto:kmorton@envstd.com)  
**Emergency Response Quality Assurance Hotline: 855.374.7272**



---

**From:** Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>  
**Sent:** Thursday, December 16, 2021 3:53 PM  
**To:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>; Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>  
**Subject:** RE: West Fork River Trail Project

Will do Kelsey!

  
**Justin Hall**  
Director of Sales-Northeast  
M: 717.377.5423 | [pacelabs.com](http://pacelabs.com)



---

**From:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Sent:** Thursday, December 16, 2021 3:42 PM  
**To:** Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>; Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>  
**Subject:** RE: West Fork River Trail Project

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Thanks, Justin!

Can we actually put a hold on the bottle order, we have to verify some things internally and will get back to you ASAP.

Thanks,

Kelsey Morton  
Staff Geoscientist II  
**Environmental Standards, Inc.**  
814.449.0221(cell) • [www.envstd.com](http://www.envstd.com) • [kmorton@envstd.com](mailto:kmorton@envstd.com)

**Emergency Response Quality Assurance Hotline: 855.374.7272**



---

**From:** Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>  
**Sent:** Thursday, December 16, 2021 1:45 PM  
**To:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>; Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>  
**Subject:** RE: West Fork River Trail Project

Hi Kelsey!

From the quote it looks like you are requesting a 10 Day TAT on these. I do not see an issue with that and the time frame you are looking to sample. Regardless, we will have Megan as well as our GM at the lab, keep an eye on these for you. Is it safe to assume that you are only going with option 1 for this work?

Please note that we have combined our WV and Greensburg lab and they are not

performing work as one lab/one LIMS. The metals for this analysis will be done in WV, but managed as usual in Greensburg.

Megan-Can you please have the lab look into these limits and double check everything? I assume we will need a bottle order to go out as well. Please coordinate that as needed.

Moving forward, Tonya Hironimus will be managing this account for you as well. Please let her know if you need anything.

Thanks and I look forward to working with you on this one.

Justin

  
**Justin Hall**  
Director of Sales-Northeast  
M: 717.377.5423 | [pacelabs.com](http://pacelabs.com)



---

**From:** Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Sent:** Thursday, December 16, 2021 1:37 PM  
**To:** Justin Hall <[Justin.Hall@pacelabs.com](mailto:Justin.Hall@pacelabs.com)>  
**Cc:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>; Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>  
**Subject:** West Fork River Trail Project

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Hi Justin,

We are ready to proceed with the West Fork River Trail Project we had previously quoted . I have attached the original quote for refence. I have also attached a list of reporting limits as well as our QA Sample list and Parameter table. We would like these to be analyzed by pace Greensburg only. We are scheduled to sample January 11-12. Will there be any problems with the reporting limits or with a standard turnaround time? We will be on a tight reporting deadline once samples have been collected.

Let me know! Thanks,

Kelsey Morton  
Staff Geoscientist II  
**Environmental Standards, Inc.**  
814.449.0221(cell) • [www.envstd.com](http://www.envstd.com) • [kmorton@envstd.com](mailto:kmorton@envstd.com)



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**From:** [Leah Mistick](#)  
**To:** [Megan Smetanka](#); [Tonya Hironimus](#)  
**Cc:** [Lydia Work](#); [Kelsey Morton](#)  
**Subject:** RE: January Samples  
**Date:** Wednesday, February 9, 2022 2:56:00 PM  
**Attachments:** [RE BOTTLE ORDER West Fork River Trail Project.msg](#)  
[image007.png](#)  
**Importance:** High

---

Megan,

It doesn't look like the PCBs and the herbicides were added to our parameter list, as per the attached email where you said we could include them. Or are we waiting on that too?

Also, I don't see the SPLP data – are we waiting on that? Please let me know ASAP, we need that data.

Thank you,

Leah Mistick, LRS, CP, MBA  
Senior Geoscientist  
**Environmental Standards, Inc.**  
681.209.1077 (cell)  
www.envstd.com • [lmistick@envstd.com](mailto:lmistick@envstd.com)

**Emergency Response Quality Assurance Hotline: 855.374.7272**



---

**From:** Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>  
**Sent:** Wednesday, February 9, 2022 10:15 AM  
**To:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>; Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>  
**Cc:** Lydia Work <[lwork@envstd.com](mailto:lwork@envstd.com)>; Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Subject:** RE: January Samples

This sender is trusted.

Hi Leah,

I apologize for the delay, we are still waiting on the metals to complete for this project. I have attached a preliminary report for what has finished.

Thanks,

**Megan Smetanka**  
Project Manager | Environmental Sciences  
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601  
o: 724-850-5614 | [pacelabs.com](http://pacelabs.com)



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[Online Bill Pay](#)

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**From:** Leah Mistick <[lmistick@envstd.com](mailto:lmistick@envstd.com)>  
**Sent:** Wednesday, February 2, 2022 9:48 AM  
**To:** Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>  
**Cc:** Lydia Work <[lwork@envstd.com](mailto:lwork@envstd.com)>; Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Subject:** RE: January Samples  
**Importance:** High

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Any update on completion date for the West Fork trail samples?

Thank you,

Leah Mistick, LRS, CP, MBA  
Senior Geoscientist  
**Environmental Standards, Inc.**  
681.209.1077 (cell)  
[www.envstd.com](http://www.envstd.com) • [lmistick@envstd.com](mailto:lmistick@envstd.com)

**Emergency Response Quality Assurance Hotline: 855.374.7272**



---

**From:** Leah Mistick  
**Sent:** Friday, January 28, 2022 11:33 AM  
**To:** Tonya Hironimus <[Tonya.Hironimus@pacelabs.com](mailto:Tonya.Hironimus@pacelabs.com)>; Megan Smetanka <[Megan.Smetanka@pacelabs.com](mailto:Megan.Smetanka@pacelabs.com)>  
**Cc:** Lydia Work <[lwork@envstd.com](mailto:lwork@envstd.com)>; Kelsey Morton <[kmorton@envstd.com](mailto:kmorton@envstd.com)>  
**Subject:** January Samples

Hello Ladies,

I need an estimate on when the Fairmont West Fork Trail samples will be completed – I don't recall seeing a SAF come into my email for that job and in paceport it looks like they were due to be completed yesterday 1/27/22. Also - its logged in under Client Project "2019 8730 – NPDES", if that's

supposed to be the client project # It should be "20198730.NAPP", or just "West Fork River Trail". I attached our COC for your reference.

I also need a SAF and estimated completion date for the samples we just submitted this Tuesday, for White Park. I see in Paceport that it says 2/8/22, and I want to be sure that's correct - those have a firm due date of 2/11/2022 to the client.

Thank you, and I hope you have a great weekend!

Leah Mistick, LRS, CP, MBA

Senior Geoscientist

**Environmental Standards, Inc.**

681.209.1077 (cell)

[www.envstd.com](http://www.envstd.com) • [lmistick@envstd.com](mailto:lmistick@envstd.com)

**Emergency Response Quality Assurance Hotline: 855.374.7272**



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**APPENDIX D**



March 04, 2022

Leah Mistick  
Environmental Standards, Inc.  
1140 Valley Forge Road  
Valley Forge, PA 19482

RE: Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Dear Leah Mistick:

Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

(Greensburg, PA) - Revision 1 - This report replaces the February 17, 2022 report. This project was revised on March 4, 2022 to include additional analysis per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Megan J. Smetanka  
megan.smetanka@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Ms. Lydia Work, Environmental Standards, Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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### **Pace Analytical Services Beaver**

225 Industrial Park Road, Beaver, WV 25813  
Virginia VELAP 460148  
West Virginia DEP 060  
West Virginia DHHR 00412CM

North Carolina DEQ 466  
Kentucky Wastewater Certification KY90039  
Pennsylvania DEP 68-00839

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## SAMPLE SUMMARY

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30459395001	SW-US	Water	01/12/22 09:45	01/13/22 14:30
30459395002	Sed-Us	Solid	01/12/22 09:55	01/13/22 14:30
30459395003	SW-DS	Water	01/12/22 10:10	01/13/22 14:30
30459395004	Sed-DS	Solid	01/12/22 10:15	01/13/22 14:30
30459395005	SW-Trib	Water	01/12/22 10:30	01/13/22 14:30
30459395006	SW-Trib-Dup	Water	01/12/22 10:30	01/13/22 14:30
30459395007	Sed-Trib	Solid	01/12/22 10:35	01/13/22 14:30
30459395008	SB-05	Solid	01/12/22 10:50	01/13/22 14:30
30459395009	SB-05-MS	Solid	01/12/22 10:50	01/13/22 14:30
30459395010	SB-06	Solid	01/12/22 11:00	01/13/22 14:30
30459395011	SB-03 (0-2)	Solid	01/11/22 10:55	01/13/22 14:30
30459395012	SB-03 (10-12)	Solid	01/11/22 11:25	01/13/22 14:30
30459395013	SB-04 (0-2)	Solid	01/11/22 11:50	01/13/22 14:30
30459395014	SB-04 (12-14)	Solid	01/11/22 12:15	01/13/22 14:30
30459395015	SB-01 (0-2)	Solid	01/11/22 12:45	01/13/22 14:30
30459395016	SB-01 (6-7)	Solid	01/11/22 13:20	01/13/22 14:30
30459395017	SB-02 (0-2)	Solid	01/11/22 13:45	01/13/22 14:30
30459395018	SB-02 (12-14)	Solid	01/11/22 14:04	01/13/22 14:30
30459395019	Trip Blank	Water	01/11/22 00:00	01/13/22 14:30

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### SAMPLE ANALYTE COUNT

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30459395001	SW-US	EPA 6010D	ACH1	7	PASI-BV
		EPA 7470A	MFC	1	PASI-BV
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260C	LEL	52	PASI-PA
30459395002	Sed-Us	EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
30459395003	SW-DS	ASTM D2974-87	OMZ	1	PASI-PA
		EPA 6010D	ACH1	7	PASI-BV
		EPA 7470A	MFC	1	PASI-BV
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260C	LEL	52	PASI-PA
30459395004	Sed-DS	EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		ASTM D2974-87	OMZ	1	PASI-PA
30459395005	SW-Trib	EPA 6010D	ACH1	7	PASI-BV
		EPA 7470A	MFC	1	PASI-BV
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260C	LEL	52	PASI-PA
30459395006	SW-Trib-Dup	EPA 8270E	EAC	75	PASI-PA
30459395007	Sed-Trib	EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		ASTM D2974-87	OMZ	1	PASI-PA
30459395008	SB-05	EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		ASTM D2974-87	OMZ	1	PASI-PA
30459395009	SB-05-MS	EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30459395010	SB-06	ASTM D2974-87	OMZ	1	PASI-PA
		EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
30459395011	SB-03 (0-2)	ASTM D2974-87	OMZ	1	PASI-PA
		EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
30459395012	SB-03 (10-12)	ASTM D2974-87	OMZ	1	PASI-PA
		EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260C	ARG	52	PASI-PA
		EPA 8260C	JEW	14	PASI-PA
30459395013	SB-04 (0-2)	ASTM D2974-87	OMZ	1	PASI-PA
		EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
30459395014	SB-04 (12-14)	ASTM D2974-87	OMZ	1	PASI-PA
		EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260C	ARG	52	PASI-PA
		EPA 8260C	JEW	14	PASI-PA
30459395015	SB-01 (0-2)	ASTM D2974-87	OMZ	1	PASI-PA
		EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
30459395016	SB-01 (6-7)	ASTM D2974-87	OMZ	1	PASI-PA
		EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV

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### SAMPLE ANALYTE COUNT

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260C	ARG	52	PASI-PA
		EPA 8260C	JEW	14	PASI-PA
		ASTM D2974-87	OMZ	1	PASI-PA
<b>30459395017</b>	<b>SB-02 (0-2)</b>	EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		ASTM D2974-87	OMZ	1	PASI-PA
<b>30459395018</b>	<b>SB-02 (12-14)</b>	EPA 6010D	ACH1	7	PASI-BV
		EPA 7471B	MFC	1	PASI-BV
		EPA 8082A	CWB	10	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260C	ARG	52	PASI-PA
		EPA 8260C	JEW	14	PASI-PA
		ASTM D2974-87	OMZ	1	PASI-PA
<b>30459395019</b>	<b>Trip Blank</b>	EPA 8260C	LEL	52	PASI-PA

PASI-BV = Pace Analytical Services - Beaver  
PASI-PA = Pace Analytical Services - Greensburg

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: SW-US**      **Lab ID: 30459395001**      Collected: 01/12/22 09:45      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D ICP, Water, 3010A</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Beaver									
Arsenic	<6.4	ug/L	20.0	6.4	1	02/04/22 07:24	02/07/22 14:33	7440-38-2	
Barium	36.4	ug/L	5.0	1.4	1	02/04/22 07:24	02/07/22 14:33	7440-39-3	
Cadmium	<1.8	ug/L	2.0	1.8	1	02/04/22 07:24	02/07/22 14:33	7440-43-9	
Chromium	1.8J	ug/L	5.0	1.3	1	02/04/22 07:24	02/07/22 14:33	7440-47-3	
Lead	<2.5	ug/L	10.0	2.5	1	02/04/22 07:24	02/07/22 14:33	7439-92-1	
Selenium	<9.2	ug/L	20.0	9.2	1	02/04/22 07:24	02/07/22 14:33	7782-49-2	
Silver	<2.6	ug/L	5.0	2.6	1	02/04/22 07:24	02/07/22 14:33	7440-22-4	
<b>BVR 7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Beaver									
Mercury	<0.20	ug/L	0.20	0.20	1	02/09/22 15:00	02/10/22 09:38	7439-97-6	H1
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Greensburg									
Acenaphthene	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 01:41	83-32-9	1c
Acenaphthylene	<0.66	ug/L	1.0	0.66	1	01/19/22 09:03	01/27/22 01:41	208-96-8	1c
Anthracene	<0.68	ug/L	1.0	0.68	1	01/19/22 09:03	01/27/22 01:41	120-12-7	1c
Azobenzene	<0.68	ug/L	1.0	0.68	1	01/19/22 09:03	01/27/22 01:41	103-33-3	1c
Benzo(a)anthracene	<0.80	ug/L	1.0	0.80	1	01/19/22 09:03	01/27/22 01:41	56-55-3	1c
Benzo(a)pyrene	<0.79	ug/L	1.0	0.79	1	01/19/22 09:03	01/27/22 01:41	50-32-8	1c
Benzo(b)fluoranthene	<0.78	ug/L	1.0	0.78	1	01/19/22 09:03	01/27/22 01:41	205-99-2	1c
Benzo(g,h,i)perylene	<0.83	ug/L	1.0	0.83	1	01/19/22 09:03	01/27/22 01:41	191-24-2	1c
Benzo(k)fluoranthene	<0.75	ug/L	1.0	0.75	1	01/19/22 09:03	01/27/22 01:41	207-08-9	1c
Benzoic acid	<4.5	ug/L	15.6	4.5	1	01/19/22 09:03	01/27/22 01:41	65-85-0	1c
Benzyl alcohol	<1.0	ug/L	1.0	1.0	1	01/19/22 09:03	01/27/22 01:41	100-51-6	1c
4-Bromophenylphenyl ether	<0.70	ug/L	1.0	0.70	1	01/19/22 09:03	01/27/22 01:41	101-55-3	1c
Butylbenzylphthalate	<1.7	ug/L	2.6	1.7	1	01/19/22 09:03	01/27/22 01:41	85-68-7	1c
Carbazole	<0.73	ug/L	1.0	0.73	1	01/19/22 09:03	01/27/22 01:41	86-74-8	1c
4-Chloro-3-methylphenol	<0.66	ug/L	1.0	0.66	1	01/19/22 09:03	01/27/22 01:41	59-50-7	1c,L1
4-Chloroaniline	<0.52	ug/L	1.0	0.52	1	01/19/22 09:03	01/27/22 01:41	106-47-8	1c,L1
bis(2-Chloroethoxy)methane	<0.60	ug/L	1.0	0.60	1	01/19/22 09:03	01/27/22 01:41	111-91-1	1c
bis(2-Chloroethyl) ether	<0.56	ug/L	1.0	0.56	1	01/19/22 09:03	01/27/22 01:41	111-44-4	1c
bis(2-Chloroisopropyl) ether	<0.65	ug/L	1.0	0.65	1	01/19/22 09:03	01/27/22 01:41	108-60-1	1c
2-Chloronaphthalene	<0.69	ug/L	1.0	0.69	1	01/19/22 09:03	01/27/22 01:41	91-58-7	1c
2-Chlorophenol	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 01:41	95-57-8	1c
4-Chlorophenylphenyl ether	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 01:41	7005-72-3	1c
Chrysene	<0.83	ug/L	1.0	0.83	1	01/19/22 09:03	01/27/22 01:41	218-01-9	1c
Dibenz(a,h)anthracene	<0.79	ug/L	1.0	0.79	1	01/19/22 09:03	01/27/22 01:41	53-70-3	1c
Dibenzofuran	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 01:41	132-64-9	1c
1,2-Dichlorobenzene	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 01:41	95-50-1	1c
1,3-Dichlorobenzene	<0.59	ug/L	1.0	0.59	1	01/19/22 09:03	01/27/22 01:41	541-73-1	1c
1,4-Dichlorobenzene	<0.59	ug/L	1.0	0.59	1	01/19/22 09:03	01/27/22 01:41	106-46-7	1c
3,3'-Dichlorobenzidine	<0.84	ug/L	1.0	0.84	1	01/19/22 09:03	01/27/22 01:41	91-94-1	1c
2,4-Dichlorophenol	<0.64	ug/L	1.0	0.64	1	01/19/22 09:03	01/27/22 01:41	120-83-2	1c
Diethylphthalate	<0.66	ug/L	1.0	0.66	1	01/19/22 09:03	01/27/22 01:41	84-66-2	1c

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-US**      **Lab ID: 30459395001**      Collected: 01/12/22 09:45      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Greensburg									
2,4-Dimethylphenol	<0.67	ug/L	1.0	0.67	1	01/19/22 09:03	01/27/22 01:41	105-67-9	1c,L1
Dimethylphthalate	<0.66	ug/L	1.0	0.66	1	01/19/22 09:03	01/27/22 01:41	131-11-3	1c
Di-n-butylphthalate	<0.84	ug/L	1.0	0.84	1	01/19/22 09:03	01/27/22 01:41	84-74-2	1c
4,6-Dinitro-2-methylphenol	<0.82	ug/L	2.6	0.82	1	01/19/22 09:03	01/27/22 01:41	534-52-1	1c
2,4-Dinitrophenol	<0.81	ug/L	2.6	0.81	1	01/19/22 09:03	01/27/22 01:41	51-28-5	1c
2,4-Dinitrotoluene	<0.48	ug/L	1.0	0.48	1	01/19/22 09:03	01/27/22 01:41	121-14-2	1c
2,6-Dinitrotoluene	<0.58	ug/L	1.0	0.58	1	01/19/22 09:03	01/27/22 01:41	606-20-2	1c
Di-n-octylphthalate	<1.2	ug/L	2.6	1.2	1	01/19/22 09:03	01/27/22 01:41	117-84-0	1c
bis(2-Ethylhexyl)phthalate	<1.5	ug/L	2.6	1.5	1	01/19/22 09:03	01/27/22 01:41	117-81-7	1c
Fluoranthene	<0.74	ug/L	1.0	0.74	1	01/19/22 09:03	01/27/22 01:41	206-44-0	1c
Fluorene	<0.64	ug/L	1.0	0.64	1	01/19/22 09:03	01/27/22 01:41	86-73-7	1c
Hexachloro-1,3-butadiene	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 01:41	87-68-3	1c
Hexachlorobenzene	<0.71	ug/L	1.0	0.71	1	01/19/22 09:03	01/27/22 01:41	118-74-1	1c
Hexachlorocyclopentadiene	<0.59	ug/L	1.0	0.59	1	01/19/22 09:03	01/27/22 01:41	77-47-4	1c,L1
Hexachloroethane	<0.59	ug/L	1.0	0.59	1	01/19/22 09:03	01/27/22 01:41	67-72-1	1c
Indeno(1,2,3-cd)pyrene	<0.73	ug/L	1.0	0.73	1	01/19/22 09:03	01/27/22 01:41	193-39-5	1c
Isophorone	<0.63	ug/L	1.0	0.63	1	01/19/22 09:03	01/27/22 01:41	78-59-1	1c,L1
1-Methylnaphthalene	<0.60	ug/L	1.0	0.60	1	01/19/22 09:03	01/27/22 01:41	90-12-0	1c,L1
2-Methylnaphthalene	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 01:41	91-57-6	1c
2-Methylphenol(o-Cresol)	<0.51	ug/L	1.0	0.51	1	01/19/22 09:03	01/27/22 01:41	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	<0.92	ug/L	2.1	0.92	1	01/19/22 09:03	01/27/22 01:41		1c
Naphthalene	<0.69	ug/L	1.0	0.69	1	01/19/22 09:03	01/27/22 01:41	91-20-3	1c,L1
2-Nitroaniline	<1.3	ug/L	2.6	1.3	1	01/19/22 09:03	01/27/22 01:41	88-74-4	1c
3-Nitroaniline	<1.4	ug/L	2.6	1.4	1	01/19/22 09:03	01/27/22 01:41	99-09-2	1c
4-Nitroaniline	<1.4	ug/L	2.6	1.4	1	01/19/22 09:03	01/27/22 01:41	100-01-6	1c
Nitrobenzene	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 01:41	98-95-3	1c
2-Nitrophenol	<0.70	ug/L	1.0	0.70	1	01/19/22 09:03	01/27/22 01:41	88-75-5	1c
4-Nitrophenol	<0.37	ug/L	1.0	0.37	1	01/19/22 09:03	01/27/22 01:41	100-02-7	1c
N-Nitrosodimethylamine	<0.35	ug/L	1.0	0.35	1	01/19/22 09:03	01/27/22 01:41	62-75-9	1c
N-Nitroso-di-n-propylamine	<0.60	ug/L	1.0	0.60	1	01/19/22 09:03	01/27/22 01:41	621-64-7	1c
N-Nitrosodiphenylamine	<0.71	ug/L	1.0	0.71	1	01/19/22 09:03	01/27/22 01:41	86-30-6	1c
Pentachlorophenol	<1.6	ug/L	2.6	1.6	1	01/19/22 09:03	01/27/22 01:41	87-86-5	1c
Phenanthrene	<0.69	ug/L	1.0	0.69	1	01/19/22 09:03	01/27/22 01:41	85-01-8	1c
Phenol	<0.26	ug/L	1.0	0.26	1	01/19/22 09:03	01/27/22 01:41	108-95-2	1c
Pyrene	<0.79	ug/L	1.0	0.79	1	01/19/22 09:03	01/27/22 01:41	129-00-0	1c
1,2,4-Trichlorobenzene	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 01:41	120-82-1	1c,L1
2,4,5-Trichlorophenol	<1.7	ug/L	2.6	1.7	1	01/19/22 09:03	01/27/22 01:41	95-95-4	1c
2,4,6-Trichlorophenol	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 01:41	88-06-2	1c
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	89	%	10-140		1	01/19/22 09:03	01/27/22 01:41	4165-60-0	
2-Fluorobiphenyl (S)	80	%	10-135		1	01/19/22 09:03	01/27/22 01:41	321-60-8	
Terphenyl-d14 (S)	99	%	10-128		1	01/19/22 09:03	01/27/22 01:41	1718-51-0	
Phenol-d6 (S)	31	%	10-145		1	01/19/22 09:03	01/27/22 01:41	13127-88-3	
2-Fluorophenol (S)	51	%	10-142		1	01/19/22 09:03	01/27/22 01:41	367-12-4	
2,4,6-Tribromophenol (S)	100	%	10-140		1	01/19/22 09:03	01/27/22 01:41	118-79-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-US**      **Lab ID: 30459395001**      Collected: 01/12/22 09:45      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>									
Analytical Method: EPA 8260C									
Pace Analytical Services - Greensburg									
Acetone	<5.6	ug/L	10.0	5.6	1		01/24/22 13:48	67-64-1	2c,CL, L2
Benzene	<0.34	ug/L	1.0	0.34	1		01/24/22 13:48	71-43-2	
Bromochloromethane	<0.48	ug/L	1.0	0.48	1		01/24/22 13:48	74-97-5	
Bromodichloromethane	<0.35	ug/L	1.0	0.35	1		01/24/22 13:48	75-27-4	
Bromoform	<0.56	ug/L	1.0	0.56	1		01/24/22 13:48	75-25-2	CL
Bromomethane	<0.73	ug/L	1.0	0.73	1		01/24/22 13:48	74-83-9	CL
TOTAL BTEX	<2.4	ug/L	6.0	2.4	1		01/24/22 13:48		
2-Butanone (MEK)	<1.5	ug/L	10.0	1.5	1		01/24/22 13:48	78-93-3	
Carbon disulfide	<0.32	ug/L	1.0	0.32	1		01/24/22 13:48	75-15-0	
Carbon tetrachloride	<0.44	ug/L	1.0	0.44	1		01/24/22 13:48	56-23-5	
Chlorobenzene	<0.26	ug/L	1.0	0.26	1		01/24/22 13:48	108-90-7	
Chloroethane	<0.64	ug/L	1.0	0.64	1		01/24/22 13:48	75-00-3	CL
Chloroform	<0.39	ug/L	1.0	0.39	1		01/24/22 13:48	67-66-3	
Chloromethane	<0.40	ug/L	1.0	0.40	1		01/24/22 13:48	74-87-3	
Dibromochloromethane	<0.43	ug/L	1.0	0.43	1		01/24/22 13:48	124-48-1	
1,2-Dichlorobenzene	<0.38	ug/L	1.0	0.38	1		01/24/22 13:48	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		01/24/22 13:48	541-73-1	
1,4-Dichlorobenzene	<0.48	ug/L	1.0	0.48	1		01/24/22 13:48	106-46-7	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/24/22 13:48	75-34-3	
1,2-Dichloroethane	<0.33	ug/L	1.0	0.33	1		01/24/22 13:48	107-06-2	
1,2-Dichloroethene (Total)	<0.66	ug/L	2.0	0.66	1		01/24/22 13:48	540-59-0	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/24/22 13:48	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/L	1.0	0.38	1		01/24/22 13:48	156-59-2	
trans-1,2-Dichloroethene	<0.28	ug/L	1.0	0.28	1		01/24/22 13:48	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/24/22 13:48	78-87-5	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		01/24/22 13:48	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		01/24/22 13:48	10061-02-6	
Ethylbenzene	<0.40	ug/L	1.0	0.40	1		01/24/22 13:48	100-41-4	
2-Hexanone	<0.58	ug/L	10.0	0.58	1		01/24/22 13:48	591-78-6	
Isopropylbenzene (Cumene)	<0.47	ug/L	1.0	0.47	1		01/24/22 13:48	98-82-8	
Methylene Chloride	<0.64	ug/L	1.0	0.64	1		01/24/22 13:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	10.0	0.42	1		01/24/22 13:48	108-10-1	
Methyl-tert-butyl ether	<0.25	ug/L	1.0	0.25	1		01/24/22 13:48	1634-04-4	
Naphthalene	<0.82	ug/L	2.0	0.82	1		01/24/22 13:48	91-20-3	
Styrene	<0.33	ug/L	1.0	0.33	1		01/24/22 13:48	100-42-5	
1,1,2,2-Tetrachloroethane	<0.47	ug/L	1.0	0.47	1		01/24/22 13:48	79-34-5	
Tetrachloroethene	<0.39	ug/L	1.0	0.39	1		01/24/22 13:48	127-18-4	
Toluene	<0.32	ug/L	1.0	0.32	1		01/24/22 13:48	108-88-3	
1,2,4-Trichlorobenzene	<0.73	ug/L	1.0	0.73	1		01/24/22 13:48	120-82-1	
1,1,1-Trichloroethane	<0.38	ug/L	1.0	0.38	1		01/24/22 13:48	71-55-6	
1,1,2-Trichloroethane	<0.33	ug/L	1.0	0.33	1		01/24/22 13:48	79-00-5	
Trichloroethene	<0.29	ug/L	1.0	0.29	1		01/24/22 13:48	79-01-6	
1,2,4-Trimethylbenzene	<0.63	ug/L	1.0	0.63	1		01/24/22 13:48	95-63-6	
1,3,5-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/24/22 13:48	108-67-8	

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-US**      **Lab ID: 30459395001**      Collected: 01/12/22 09:45      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>									
Analytical Method: EPA 8260C Pace Analytical Services - Greensburg									
Vinyl chloride	<0.29	ug/L	1.0	0.29	1		01/24/22 13:48	75-01-4	
Xylene (Total)	<1.4	ug/L	3.0	1.4	1		01/24/22 13:48	1330-20-7	
m&p-Xylene	<0.94	ug/L	2.0	0.94	1		01/24/22 13:48	179601-23-1	
o-Xylene	<0.41	ug/L	1.0	0.41	1		01/24/22 13:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		01/24/22 13:48	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		01/24/22 13:48	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		01/24/22 13:48	2037-26-5	
Dibromofluoromethane (S)	110	%	70-130		1		01/24/22 13:48	1868-53-7	

**Sample: Sed-US**      **Lab ID: 30459395002**      Collected: 01/12/22 09:55      Received: 01/13/22 14:30      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3050B Pace Analytical Services - Beaver									
Arsenic	11.3	mg/kg	9.0	0.99	1	02/07/22 08:23	02/09/22 09:17	7440-38-2	
Barium	175	mg/kg	9.0	1.0	1	02/07/22 08:23	02/09/22 09:17	7440-39-3	
Cadmium	0.49J	mg/kg	1.8	0.22	1	02/07/22 08:23	02/09/22 09:17	7440-43-9	
Chromium	19.1	mg/kg	9.0	1.0	1	02/07/22 08:23	02/09/22 09:17	7440-47-3	
Lead	35.0	mg/kg	9.0	0.87	1	02/07/22 08:23	02/09/22 09:17	7439-92-1	
Selenium	3.6J	mg/kg	9.0	1.9	1	02/07/22 08:23	02/09/22 09:17	7782-49-2	
Silver	22.3	mg/kg	4.5	0.76	1	02/07/22 08:23	02/09/22 09:17	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B      Preparation Method: EPA 7471B Pace Analytical Services - Beaver									
Mercury	0.10J	mg/kg	0.17	0.016	1	02/08/22 14:53	02/14/22 14:25	7439-97-6	H1
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A      Preparation Method: EPA 3546 Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<87.9	ug/kg	142	87.9	5	02/25/22 08:15	02/28/22 13:27	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<126	ug/kg	142	126	5	02/25/22 08:15	02/28/22 13:27	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<130	ug/kg	142	130	5	02/25/22 08:15	02/28/22 13:27	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<104	ug/kg	142	104	5	02/25/22 08:15	02/28/22 13:27	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<81.9	ug/kg	142	81.9	5	02/25/22 08:15	02/28/22 13:27	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<75.9	ug/kg	142	75.9	5	02/25/22 08:15	02/28/22 13:27	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<81.1	ug/kg	142	81.1	5	02/25/22 08:15	02/28/22 13:27	11096-82-5	ED
PCB, Total	<53.8	ug/kg	142	53.8	5	02/25/22 08:15	02/28/22 13:27	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	94	%	46-120		5	02/25/22 08:15	02/28/22 13:27	877-09-8	
Decachlorobiphenyl (S)	105	%	41-148		5	02/25/22 08:15	02/28/22 13:27	2051-24-3	CH

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: Sed-Us**      **Lab ID: 30459395002**      Collected: 01/12/22 09:55      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<1920	ug/kg	5660	1920	10	01/20/22 08:19	01/20/22 18:38	83-32-9	ED
Acenaphthylene	<1700	ug/kg	5660	1700	10	01/20/22 08:19	01/20/22 18:38	208-96-8	ED
Anthracene	<1300	ug/kg	5660	1300	10	01/20/22 08:19	01/20/22 18:38	120-12-7	ED
Azobenzene	<2000	ug/kg	5660	2000	10	01/20/22 08:19	01/20/22 18:38	103-33-3	ED
Benzo(a)anthracene	<2540	ug/kg	5660	2540	10	01/20/22 08:19	01/20/22 18:38	56-55-3	ED
Benzo(a)pyrene	<1760	ug/kg	5660	1760	10	01/20/22 08:19	01/20/22 18:38	50-32-8	ED
Benzo(b)fluoranthene	<1720	ug/kg	5660	1720	10	01/20/22 08:19	01/20/22 18:38	205-99-2	ED
Benzo(g,h,i)perylene	<1960	ug/kg	5660	1960	10	01/20/22 08:19	01/20/22 18:38	191-24-2	ED
Benzo(k)fluoranthene	<2500	ug/kg	5660	2500	10	01/20/22 08:19	01/20/22 18:38	207-08-9	ED
Benzoic acid	<28700	ug/kg	84800	28700	10	01/20/22 08:19	01/20/22 18:38	65-85-0	CH,ED, L1,ML
Benzyl alcohol	<5000	ug/kg	5660	5000	10	01/20/22 08:19	01/20/22 18:38	100-51-6	ED
4-Bromophenylphenyl ether	<2080	ug/kg	5660	2080	10	01/20/22 08:19	01/20/22 18:38	101-55-3	ED
Butylbenzylphthalate	<1590	ug/kg	5660	1590	10	01/20/22 08:19	01/20/22 18:38	85-68-7	ED
Carbazole	<2220	ug/kg	5660	2220	10	01/20/22 08:19	01/20/22 18:38	86-74-8	ED, MH
4-Chloro-3-methylphenol	<910	ug/kg	5660	910	10	01/20/22 08:19	01/20/22 18:38	59-50-7	ED
4-Chloroaniline	<995	ug/kg	5660	995	10	01/20/22 08:19	01/20/22 18:38	106-47-8	ED
bis(2-Chloroethoxy)methane	<2240	ug/kg	5660	2240	10	01/20/22 08:19	01/20/22 18:38	111-91-1	ED, MH
bis(2-Chloroethyl) ether	<1030	ug/kg	5660	1030	10	01/20/22 08:19	01/20/22 18:38	111-44-4	ED
bis(2-Chloroisopropyl) ether	<4800	ug/kg	5660	4800	10	01/20/22 08:19	01/20/22 18:38	108-60-1	ED
2-Chloronaphthalene	<1620	ug/kg	5660	1620	10	01/20/22 08:19	01/20/22 18:38	91-58-7	ED, MH
2-Chlorophenol	<1760	ug/kg	5660	1760	10	01/20/22 08:19	01/20/22 18:38	95-57-8	ED, M1
4-Chlorophenylphenyl ether	<1640	ug/kg	5660	1640	10	01/20/22 08:19	01/20/22 18:38	7005-72-3	ED
Chrysene	<2090	ug/kg	5660	2090	10	01/20/22 08:19	01/20/22 18:38	218-01-9	ED
Dibenz(a,h)anthracene	<2150	ug/kg	5660	2150	10	01/20/22 08:19	01/20/22 18:38	53-70-3	ED
Dibenzofuran	<1810	ug/kg	5660	1810	10	01/20/22 08:19	01/20/22 18:38	132-64-9	ED
1,2-Dichlorobenzene	<1770	ug/kg	5660	1770	10	01/20/22 08:19	01/20/22 18:38	95-50-1	ED, MH
1,3-Dichlorobenzene	<1670	ug/kg	5660	1670	10	01/20/22 08:19	01/20/22 18:38	541-73-1	ED, MH
1,4-Dichlorobenzene	<781	ug/kg	5660	781	10	01/20/22 08:19	01/20/22 18:38	106-46-7	ED, MH
3,3'-Dichlorobenzidine	<1660	ug/kg	5660	1660	10	01/20/22 08:19	01/20/22 18:38	91-94-1	ED
2,4-Dichlorophenol	<2540	ug/kg	5660	2540	10	01/20/22 08:19	01/20/22 18:38	120-83-2	ED
Diethylphthalate	<1990	ug/kg	5660	1990	10	01/20/22 08:19	01/20/22 18:38	84-66-2	ED
2,4-Dimethylphenol	<1720	ug/kg	5660	1720	10	01/20/22 08:19	01/20/22 18:38	105-67-9	ED
Dimethylphthalate	<1740	ug/kg	5660	1740	10	01/20/22 08:19	01/20/22 18:38	131-11-3	ED
Di-n-butylphthalate	<1910	ug/kg	5660	1910	10	01/20/22 08:19	01/20/22 18:38	84-74-2	ED
4,6-Dinitro-2-methylphenol	<4210	ug/kg	14100	4210	10	01/20/22 08:19	01/20/22 18:38	534-52-1	ED, L1
2,4-Dinitrophenol	<12700	ug/kg	14100	12700	10	01/20/22 08:19	01/20/22 18:38	51-28-5	CH,ED, MH
2,4-Dinitrotoluene	<1720	ug/kg	5660	1720	10	01/20/22 08:19	01/20/22 18:38	121-14-2	ED
2,6-Dinitrotoluene	<1720	ug/kg	5660	1720	10	01/20/22 08:19	01/20/22 18:38	606-20-2	ED
Di-n-octylphthalate	<1280	ug/kg	5660	1280	10	01/20/22 08:19	01/20/22 18:38	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<1800	ug/kg	5660	1800	10	01/20/22 08:19	01/20/22 18:38	117-81-7	ED
Fluoranthene	<1820	ug/kg	5660	1820	10	01/20/22 08:19	01/20/22 18:38	206-44-0	ED
Fluorene	<1730	ug/kg	5660	1730	10	01/20/22 08:19	01/20/22 18:38	86-73-7	ED, MH
Hexachloro-1,3-butadiene	<1840	ug/kg	5660	1840	10	01/20/22 08:19	01/20/22 18:38	87-68-3	ED

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: Sed-Us**      **Lab ID: 30459395002**      Collected: 01/12/22 09:55      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Hexachlorobenzene	<1630	ug/kg	5660	1630	10	01/20/22 08:19	01/20/22 18:38	118-74-1	ED
Hexachlorocyclopentadiene	<1340	ug/kg	5660	1340	10	01/20/22 08:19	01/20/22 18:38	77-47-4	ED
Hexachloroethane	<1530	ug/kg	5660	1530	10	01/20/22 08:19	01/20/22 18:38	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<2130	ug/kg	5660	2130	10	01/20/22 08:19	01/20/22 18:38	193-39-5	ED
Isophorone	<1860	ug/kg	5660	1860	10	01/20/22 08:19	01/20/22 18:38	78-59-1	ED
1-Methylnaphthalene	<1420	ug/kg	5660	1420	10	01/20/22 08:19	01/20/22 18:38	90-12-0	ED
2-Methylnaphthalene	<1700	ug/kg	5660	1700	10	01/20/22 08:19	01/20/22 18:38	91-57-6	ED
2-Methylphenol(o-Cresol)	<2040	ug/kg	5660	2040	10	01/20/22 08:19	01/20/22 18:38	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<3470	ug/kg	11300	3470	10	01/20/22 08:19	01/20/22 18:38		ED
Naphthalene	<1530	ug/kg	5660	1530	10	01/20/22 08:19	01/20/22 18:38	91-20-3	ED
2-Nitroaniline	<1970	ug/kg	14100	1970	10	01/20/22 08:19	01/20/22 18:38	88-74-4	ED, MH
3-Nitroaniline	<3690	ug/kg	14100	3690	10	01/20/22 08:19	01/20/22 18:38	99-09-2	ED, MH
4-Nitroaniline	<7940	ug/kg	14100	7940	10	01/20/22 08:19	01/20/22 18:38	100-01-6	CH, ED, L1
Nitrobenzene	<2100	ug/kg	5660	2100	10	01/20/22 08:19	01/20/22 18:38	98-95-3	ED, MH
2-Nitrophenol	<2250	ug/kg	5660	2250	10	01/20/22 08:19	01/20/22 18:38	88-75-5	ED, L1
4-Nitrophenol	<1900	ug/kg	5660	1900	10	01/20/22 08:19	01/20/22 18:38	100-02-7	CH, ED
N-Nitrosodimethylamine	<970	ug/kg	5660	970	10	01/20/22 08:19	01/20/22 18:38	62-75-9	ED
N-Nitroso-di-n-propylamine	<2390	ug/kg	5660	2390	10	01/20/22 08:19	01/20/22 18:38	621-64-7	ED, MH
N-Nitrosodiphenylamine	<1280	ug/kg	5660	1280	10	01/20/22 08:19	01/20/22 18:38	86-30-6	ED, MH
Pentachlorophenol	<7450	ug/kg	14100	7450	10	01/20/22 08:19	01/20/22 18:38	87-86-5	ED
Phenanthrene	<2490	ug/kg	5660	2490	10	01/20/22 08:19	01/20/22 18:38	85-01-8	ED
Phenol	<1680	ug/kg	5660	1680	10	01/20/22 08:19	01/20/22 18:38	108-95-2	ED
Pyrene	<2070	ug/kg	5660	2070	10	01/20/22 08:19	01/20/22 18:38	129-00-0	ED
1,2,4-Trichlorobenzene	<1530	ug/kg	5660	1530	10	01/20/22 08:19	01/20/22 18:38	120-82-1	ED, MH
2,4,5-Trichlorophenol	<1670	ug/kg	14100	1670	10	01/20/22 08:19	01/20/22 18:38	95-95-4	ED
2,4,6-Trichlorophenol	<1480	ug/kg	5660	1480	10	01/20/22 08:19	01/20/22 18:38	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	106	%	41-112		10	01/20/22 08:19	01/20/22 18:38	4165-60-0	
2-Fluorobiphenyl (S)	107	%	49-108		10	01/20/22 08:19	01/20/22 18:38	321-60-8	
Terphenyl-d14 (S)	101	%	43-106		10	01/20/22 08:19	01/20/22 18:38	1718-51-0	
Phenol-d6 (S)	108	%	44-112		10	01/20/22 08:19	01/20/22 18:38	13127-88-3	
2-Fluorophenol (S)	104	%	44-113		10	01/20/22 08:19	01/20/22 18:38	367-12-4	
2,4,6-Tribromophenol (S)	77	%	31-133		10	01/20/22 08:19	01/20/22 18:38	118-79-6	

**Percent Moisture**

Analytical Method: ASTM D2974-87  
Pace Analytical Services - Greensburg

Percent Moisture	<b>42.8</b>	%	0.10	0.10	1		01/18/22 10:57		
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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-DS**      **Lab ID: 30459395003**      Collected: 01/12/22 10:10      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D ICP, Water, 3010A</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Beaver									
Arsenic	<6.4	ug/L	20.0	6.4	1	02/04/22 07:24	02/07/22 14:43	7440-38-2	
Barium	36.2	ug/L	5.0	1.4	1	02/04/22 07:24	02/07/22 14:43	7440-39-3	
Cadmium	<1.8	ug/L	2.0	1.8	1	02/04/22 07:24	02/07/22 14:43	7440-43-9	
Chromium	<1.3	ug/L	5.0	1.3	1	02/04/22 07:24	02/07/22 14:43	7440-47-3	
Lead	<2.5	ug/L	10.0	2.5	1	02/04/22 07:24	02/07/22 14:43	7439-92-1	
Selenium	<9.2	ug/L	20.0	9.2	1	02/04/22 07:24	02/07/22 14:43	7782-49-2	
Silver	<2.6	ug/L	5.0	2.6	1	02/04/22 07:24	02/07/22 14:43	7440-22-4	
<b>BVR 7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Beaver									
Mercury	<0.20	ug/L	0.20	0.20	1	02/09/22 15:00	02/10/22 09:43	7439-97-6	H1
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Greensburg									
Acenaphthene	<0.58	ug/L	0.97	0.58	1	01/19/22 09:03	01/27/22 02:01	83-32-9	1c
Acenaphthylene	<0.62	ug/L	0.97	0.62	1	01/19/22 09:03	01/27/22 02:01	208-96-8	1c
Anthracene	<0.64	ug/L	0.97	0.64	1	01/19/22 09:03	01/27/22 02:01	120-12-7	1c
Azobenzene	<0.63	ug/L	0.97	0.63	1	01/19/22 09:03	01/27/22 02:01	103-33-3	1c
Benzo(a)anthracene	<0.75	ug/L	0.97	0.75	1	01/19/22 09:03	01/27/22 02:01	56-55-3	1c
Benzo(a)pyrene	<0.74	ug/L	0.97	0.74	1	01/19/22 09:03	01/27/22 02:01	50-32-8	1c
Benzo(b)fluoranthene	<0.72	ug/L	0.97	0.72	1	01/19/22 09:03	01/27/22 02:01	205-99-2	1c
Benzo(g,h,i)perylene	<0.77	ug/L	0.97	0.77	1	01/19/22 09:03	01/27/22 02:01	191-24-2	1c
Benzo(k)fluoranthene	<0.70	ug/L	0.97	0.70	1	01/19/22 09:03	01/27/22 02:01	207-08-9	1c
Benzoic acid	<4.2	ug/L	14.6	4.2	1	01/19/22 09:03	01/27/22 02:01	65-85-0	1c
Benzyl alcohol	<0.95	ug/L	0.97	0.95	1	01/19/22 09:03	01/27/22 02:01	100-51-6	1c
4-Bromophenylphenyl ether	<0.66	ug/L	0.97	0.66	1	01/19/22 09:03	01/27/22 02:01	101-55-3	1c
Butylbenzylphthalate	<1.6	ug/L	2.4	1.6	1	01/19/22 09:03	01/27/22 02:01	85-68-7	1c
Carbazole	<0.68	ug/L	0.97	0.68	1	01/19/22 09:03	01/27/22 02:01	86-74-8	1c
4-Chloro-3-methylphenol	<0.61	ug/L	0.97	0.61	1	01/19/22 09:03	01/27/22 02:01	59-50-7	1c,L1
4-Chloroaniline	<0.49	ug/L	0.97	0.49	1	01/19/22 09:03	01/27/22 02:01	106-47-8	1c,L1
bis(2-Chloroethoxy)methane	<0.56	ug/L	0.97	0.56	1	01/19/22 09:03	01/27/22 02:01	111-91-1	1c
bis(2-Chloroethyl) ether	<0.52	ug/L	0.97	0.52	1	01/19/22 09:03	01/27/22 02:01	111-44-4	1c
bis(2-Chloroisopropyl) ether	<0.61	ug/L	0.97	0.61	1	01/19/22 09:03	01/27/22 02:01	108-60-1	1c
2-Chloronaphthalene	<0.64	ug/L	0.97	0.64	1	01/19/22 09:03	01/27/22 02:01	91-58-7	1c
2-Chlorophenol	<0.57	ug/L	0.97	0.57	1	01/19/22 09:03	01/27/22 02:01	95-57-8	1c
4-Chlorophenylphenyl ether	<0.58	ug/L	0.97	0.58	1	01/19/22 09:03	01/27/22 02:01	7005-72-3	1c
Chrysene	<0.77	ug/L	0.97	0.77	1	01/19/22 09:03	01/27/22 02:01	218-01-9	1c
Dibenz(a,h)anthracene	<0.74	ug/L	0.97	0.74	1	01/19/22 09:03	01/27/22 02:01	53-70-3	1c
Dibenzofuran	<0.57	ug/L	0.97	0.57	1	01/19/22 09:03	01/27/22 02:01	132-64-9	1c
1,2-Dichlorobenzene	<0.58	ug/L	0.97	0.58	1	01/19/22 09:03	01/27/22 02:01	95-50-1	1c
1,3-Dichlorobenzene	<0.55	ug/L	0.97	0.55	1	01/19/22 09:03	01/27/22 02:01	541-73-1	1c
1,4-Dichlorobenzene	<0.55	ug/L	0.97	0.55	1	01/19/22 09:03	01/27/22 02:01	106-46-7	1c
3,3'-Dichlorobenzidine	<0.79	ug/L	0.97	0.79	1	01/19/22 09:03	01/27/22 02:01	91-94-1	1c
2,4-Dichlorophenol	<0.59	ug/L	0.97	0.59	1	01/19/22 09:03	01/27/22 02:01	120-83-2	1c
Diethylphthalate	<0.62	ug/L	0.97	0.62	1	01/19/22 09:03	01/27/22 02:01	84-66-2	1c

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-DS**      **Lab ID: 30459395003**      Collected: 01/12/22 10:10      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Greensburg									
2,4-Dimethylphenol	<0.63	ug/L	0.97	0.63	1	01/19/22 09:03	01/27/22 02:01	105-67-9	1c,L1
Dimethylphthalate	<0.62	ug/L	0.97	0.62	1	01/19/22 09:03	01/27/22 02:01	131-11-3	1c
Di-n-butylphthalate	<0.78	ug/L	0.97	0.78	1	01/19/22 09:03	01/27/22 02:01	84-74-2	1c
4,6-Dinitro-2-methylphenol	<0.76	ug/L	2.4	0.76	1	01/19/22 09:03	01/27/22 02:01	534-52-1	1c
2,4-Dinitrophenol	<0.76	ug/L	2.4	0.76	1	01/19/22 09:03	01/27/22 02:01	51-28-5	1c
2,4-Dinitrotoluene	<0.45	ug/L	0.97	0.45	1	01/19/22 09:03	01/27/22 02:01	121-14-2	1c
2,6-Dinitrotoluene	<0.54	ug/L	0.97	0.54	1	01/19/22 09:03	01/27/22 02:01	606-20-2	1c
Di-n-octylphthalate	<1.1	ug/L	2.4	1.1	1	01/19/22 09:03	01/27/22 02:01	117-84-0	1c
bis(2-Ethylhexyl)phthalate	<1.4	ug/L	2.4	1.4	1	01/19/22 09:03	01/27/22 02:01	117-81-7	1c
Fluoranthene	<0.69	ug/L	0.97	0.69	1	01/19/22 09:03	01/27/22 02:01	206-44-0	1c
Fluorene	<0.59	ug/L	0.97	0.59	1	01/19/22 09:03	01/27/22 02:01	86-73-7	1c
Hexachloro-1,3-butadiene	<0.58	ug/L	0.97	0.58	1	01/19/22 09:03	01/27/22 02:01	87-68-3	1c
Hexachlorobenzene	<0.66	ug/L	0.97	0.66	1	01/19/22 09:03	01/27/22 02:01	118-74-1	1c
Hexachlorocyclopentadiene	<0.55	ug/L	0.97	0.55	1	01/19/22 09:03	01/27/22 02:01	77-47-4	1c,L1
Hexachloroethane	<0.55	ug/L	0.97	0.55	1	01/19/22 09:03	01/27/22 02:01	67-72-1	1c
Indeno(1,2,3-cd)pyrene	<0.68	ug/L	0.97	0.68	1	01/19/22 09:03	01/27/22 02:01	193-39-5	1c
Isophorone	<0.59	ug/L	0.97	0.59	1	01/19/22 09:03	01/27/22 02:01	78-59-1	1c,L1
1-Methylnaphthalene	<0.56	ug/L	0.97	0.56	1	01/19/22 09:03	01/27/22 02:01	90-12-0	1c,L1
2-Methylnaphthalene	<0.57	ug/L	0.97	0.57	1	01/19/22 09:03	01/27/22 02:01	91-57-6	1c
2-Methylphenol(o-Cresol)	<0.48	ug/L	0.97	0.48	1	01/19/22 09:03	01/27/22 02:01	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	<0.86	ug/L	1.9	0.86	1	01/19/22 09:03	01/27/22 02:01		1c
Naphthalene	<0.65	ug/L	0.97	0.65	1	01/19/22 09:03	01/27/22 02:01	91-20-3	1c,L1
2-Nitroaniline	<1.2	ug/L	2.4	1.2	1	01/19/22 09:03	01/27/22 02:01	88-74-4	1c
3-Nitroaniline	<1.3	ug/L	2.4	1.3	1	01/19/22 09:03	01/27/22 02:01	99-09-2	1c
4-Nitroaniline	<1.3	ug/L	2.4	1.3	1	01/19/22 09:03	01/27/22 02:01	100-01-6	1c
Nitrobenzene	<0.57	ug/L	0.97	0.57	1	01/19/22 09:03	01/27/22 02:01	98-95-3	1c
2-Nitrophenol	<0.65	ug/L	0.97	0.65	1	01/19/22 09:03	01/27/22 02:01	88-75-5	1c
4-Nitrophenol	<0.34	ug/L	0.97	0.34	1	01/19/22 09:03	01/27/22 02:01	100-02-7	1c
N-Nitrosodimethylamine	<0.33	ug/L	0.97	0.33	1	01/19/22 09:03	01/27/22 02:01	62-75-9	1c
N-Nitroso-di-n-propylamine	<0.56	ug/L	0.97	0.56	1	01/19/22 09:03	01/27/22 02:01	621-64-7	1c
N-Nitrosodiphenylamine	<0.66	ug/L	0.97	0.66	1	01/19/22 09:03	01/27/22 02:01	86-30-6	1c
Pentachlorophenol	<1.5	ug/L	2.4	1.5	1	01/19/22 09:03	01/27/22 02:01	87-86-5	1c
Phenanthrene	<0.64	ug/L	0.97	0.64	1	01/19/22 09:03	01/27/22 02:01	85-01-8	1c
Phenol	<0.24	ug/L	0.97	0.24	1	01/19/22 09:03	01/27/22 02:01	108-95-2	1c
Pyrene	<0.73	ug/L	0.97	0.73	1	01/19/22 09:03	01/27/22 02:01	129-00-0	1c
1,2,4-Trichlorobenzene	<0.57	ug/L	0.97	0.57	1	01/19/22 09:03	01/27/22 02:01	120-82-1	1c,L1
2,4,5-Trichlorophenol	<1.6	ug/L	2.4	1.6	1	01/19/22 09:03	01/27/22 02:01	95-95-4	1c
2,4,6-Trichlorophenol	<0.58	ug/L	0.97	0.58	1	01/19/22 09:03	01/27/22 02:01	88-06-2	1c
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	96	%	10-140		1	01/19/22 09:03	01/27/22 02:01	4165-60-0	
2-Fluorobiphenyl (S)	89	%	10-135		1	01/19/22 09:03	01/27/22 02:01	321-60-8	
Terphenyl-d14 (S)	100	%	10-128		1	01/19/22 09:03	01/27/22 02:01	1718-51-0	
Phenol-d6 (S)	36	%	10-145		1	01/19/22 09:03	01/27/22 02:01	13127-88-3	
2-Fluorophenol (S)	60	%	10-142		1	01/19/22 09:03	01/27/22 02:01	367-12-4	
2,4,6-Tribromophenol (S)	101	%	10-140		1	01/19/22 09:03	01/27/22 02:01	118-79-6	

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-DS**      **Lab ID: 30459395003**      Collected: 01/12/22 10:10      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>									
Analytical Method: EPA 8260C									
Pace Analytical Services - Greensburg									
Acetone	<5.6	ug/L	10.0	5.6	1		01/24/22 14:13	67-64-1	2c,CL, L2
Benzene	<0.34	ug/L	1.0	0.34	1		01/24/22 14:13	71-43-2	
Bromochloromethane	<0.48	ug/L	1.0	0.48	1		01/24/22 14:13	74-97-5	
Bromodichloromethane	<0.35	ug/L	1.0	0.35	1		01/24/22 14:13	75-27-4	
Bromoform	<0.56	ug/L	1.0	0.56	1		01/24/22 14:13	75-25-2	CL
Bromomethane	<0.73	ug/L	1.0	0.73	1		01/24/22 14:13	74-83-9	CL
TOTAL BTEX	<2.4	ug/L	6.0	2.4	1		01/24/22 14:13		
2-Butanone (MEK)	<1.5	ug/L	10.0	1.5	1		01/24/22 14:13	78-93-3	
Carbon disulfide	<0.32	ug/L	1.0	0.32	1		01/24/22 14:13	75-15-0	
Carbon tetrachloride	<0.44	ug/L	1.0	0.44	1		01/24/22 14:13	56-23-5	
Chlorobenzene	<0.26	ug/L	1.0	0.26	1		01/24/22 14:13	108-90-7	
Chloroethane	<0.64	ug/L	1.0	0.64	1		01/24/22 14:13	75-00-3	CL
Chloroform	<0.39	ug/L	1.0	0.39	1		01/24/22 14:13	67-66-3	
Chloromethane	<0.40	ug/L	1.0	0.40	1		01/24/22 14:13	74-87-3	
Dibromochloromethane	<0.43	ug/L	1.0	0.43	1		01/24/22 14:13	124-48-1	
1,2-Dichlorobenzene	<0.38	ug/L	1.0	0.38	1		01/24/22 14:13	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		01/24/22 14:13	541-73-1	
1,4-Dichlorobenzene	<0.48	ug/L	1.0	0.48	1		01/24/22 14:13	106-46-7	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/24/22 14:13	75-34-3	
1,2-Dichloroethane	<0.33	ug/L	1.0	0.33	1		01/24/22 14:13	107-06-2	
1,2-Dichloroethene (Total)	<0.66	ug/L	2.0	0.66	1		01/24/22 14:13	540-59-0	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/24/22 14:13	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/L	1.0	0.38	1		01/24/22 14:13	156-59-2	
trans-1,2-Dichloroethene	<0.28	ug/L	1.0	0.28	1		01/24/22 14:13	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/24/22 14:13	78-87-5	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		01/24/22 14:13	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		01/24/22 14:13	10061-02-6	
Ethylbenzene	<0.40	ug/L	1.0	0.40	1		01/24/22 14:13	100-41-4	
2-Hexanone	<0.58	ug/L	10.0	0.58	1		01/24/22 14:13	591-78-6	
Isopropylbenzene (Cumene)	<0.47	ug/L	1.0	0.47	1		01/24/22 14:13	98-82-8	
Methylene Chloride	<0.64	ug/L	1.0	0.64	1		01/24/22 14:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	10.0	0.42	1		01/24/22 14:13	108-10-1	
Methyl-tert-butyl ether	<0.25	ug/L	1.0	0.25	1		01/24/22 14:13	1634-04-4	
Naphthalene	<0.82	ug/L	2.0	0.82	1		01/24/22 14:13	91-20-3	
Styrene	<0.33	ug/L	1.0	0.33	1		01/24/22 14:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.47	ug/L	1.0	0.47	1		01/24/22 14:13	79-34-5	
Tetrachloroethene	<0.39	ug/L	1.0	0.39	1		01/24/22 14:13	127-18-4	
Toluene	<0.32	ug/L	1.0	0.32	1		01/24/22 14:13	108-88-3	
1,2,4-Trichlorobenzene	<0.73	ug/L	1.0	0.73	1		01/24/22 14:13	120-82-1	
1,1,1-Trichloroethane	<0.38	ug/L	1.0	0.38	1		01/24/22 14:13	71-55-6	
1,1,2-Trichloroethane	<0.33	ug/L	1.0	0.33	1		01/24/22 14:13	79-00-5	
Trichloroethene	<0.29	ug/L	1.0	0.29	1		01/24/22 14:13	79-01-6	
1,2,4-Trimethylbenzene	<0.63	ug/L	1.0	0.63	1		01/24/22 14:13	95-63-6	
1,3,5-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/24/22 14:13	108-67-8	

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-DS**      **Lab ID: 30459395003**      Collected: 01/12/22 10:10      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>									
Analytical Method: EPA 8260C									
Pace Analytical Services - Greensburg									
Vinyl chloride	<0.29	ug/L	1.0	0.29	1		01/24/22 14:13	75-01-4	
Xylene (Total)	<1.4	ug/L	3.0	1.4	1		01/24/22 14:13	1330-20-7	
m&p-Xylene	<0.94	ug/L	2.0	0.94	1		01/24/22 14:13	179601-23-1	
o-Xylene	<0.41	ug/L	1.0	0.41	1		01/24/22 14:13	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		01/24/22 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		01/24/22 14:13	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		01/24/22 14:13	2037-26-5	
Dibromofluoromethane (S)	109	%	70-130		1		01/24/22 14:13	1868-53-7	

**Sample: Sed-DS**      **Lab ID: 30459395004**      Collected: 01/12/22 10:15      Received: 01/13/22 14:30      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	<b>8.5J</b>	mg/kg	9.8	1.1	1	02/07/22 08:23	02/09/22 09:19	7440-38-2	
Barium	<b>160</b>	mg/kg	9.8	1.1	1	02/07/22 08:23	02/09/22 09:19	7440-39-3	
Cadmium	<b>0.59J</b>	mg/kg	2.0	0.23	1	02/07/22 08:23	02/09/22 09:19	7440-43-9	
Chromium	<b>18.1</b>	mg/kg	9.8	1.1	1	02/07/22 08:23	02/09/22 09:19	7440-47-3	
Lead	<b>27.6</b>	mg/kg	9.8	0.94	1	02/07/22 08:23	02/09/22 09:19	7439-92-1	
Selenium	<b>2.4J</b>	mg/kg	9.8	2.1	1	02/07/22 08:23	02/09/22 09:19	7782-49-2	
Silver	<b>19.2</b>	mg/kg	4.9	0.83	1	02/07/22 08:23	02/09/22 09:19	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	<b>0.10J</b>	mg/kg	0.19	0.018	1	02/08/22 14:53	02/14/22 14:27	7439-97-6	H1
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A      Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	< <b>97.2</b>	ug/kg	158	97.2	5	02/25/22 08:15	02/28/22 13:44	12674-11-2	ED
PCB-1221 (Aroclor 1221)	< <b>140</b>	ug/kg	158	140	5	02/25/22 08:15	02/28/22 13:44	11104-28-2	ED
PCB-1232 (Aroclor 1232)	< <b>143</b>	ug/kg	158	143	5	02/25/22 08:15	02/28/22 13:44	11141-16-5	ED
PCB-1242 (Aroclor 1242)	< <b>115</b>	ug/kg	158	115	5	02/25/22 08:15	02/28/22 13:44	53469-21-9	ED
PCB-1248 (Aroclor 1248)	< <b>90.6</b>	ug/kg	158	90.6	5	02/25/22 08:15	02/28/22 13:44	12672-29-6	ED
PCB-1254 (Aroclor 1254)	< <b>84.0</b>	ug/kg	158	84.0	5	02/25/22 08:15	02/28/22 13:44	11097-69-1	ED
PCB-1260 (Aroclor 1260)	< <b>89.7</b>	ug/kg	158	89.7	5	02/25/22 08:15	02/28/22 13:44	11096-82-5	ED
PCB, Total	< <b>59.5</b>	ug/kg	158	59.5	5	02/25/22 08:15	02/28/22 13:44	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	64	%	46-120		5	02/25/22 08:15	02/28/22 13:44	877-09-8	
Decachlorobiphenyl (S)	90	%	41-148		5	02/25/22 08:15	02/28/22 13:44	2051-24-3	CH

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: Sed-DS**      **Lab ID: 30459395004**      Collected: 01/12/22 10:15      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<1080	ug/kg	3190	1080	5	01/20/22 08:19	01/26/22 17:17	83-32-9	ED
Acenaphthylene	<957	ug/kg	3190	957	5	01/20/22 08:19	01/26/22 17:17	208-96-8	ED
Anthracene	<732	ug/kg	3190	732	5	01/20/22 08:19	01/26/22 17:17	120-12-7	ED
Azobenzene	<1120	ug/kg	3190	1120	5	01/20/22 08:19	01/26/22 17:17	103-33-3	ED
Benzo(a)anthracene	<1430	ug/kg	3190	1430	5	01/20/22 08:19	01/26/22 17:17	56-55-3	ED
Benzo(a)pyrene	<991	ug/kg	3190	991	5	01/20/22 08:19	01/26/22 17:17	50-32-8	ED
Benzo(b)fluoranthene	<969	ug/kg	3190	969	5	01/20/22 08:19	01/26/22 17:17	205-99-2	ED,lp
Benzo(g,h,i)perylene	<1110	ug/kg	3190	1110	5	01/20/22 08:19	01/26/22 17:17	191-24-2	ED
Benzo(k)fluoranthene	<1410	ug/kg	3190	1410	5	01/20/22 08:19	01/26/22 17:17	207-08-9	ED,lp
Benzoic acid	<16200	ug/kg	47800	16200	5	01/20/22 08:19	01/26/22 17:17	65-85-0	ED,L1
Benzyl alcohol	<2820	ug/kg	3190	2820	5	01/20/22 08:19	01/26/22 17:17	100-51-6	ED
4-Bromophenylphenyl ether	<1170	ug/kg	3190	1170	5	01/20/22 08:19	01/26/22 17:17	101-55-3	ED
Butylbenzylphthalate	<896	ug/kg	3190	896	5	01/20/22 08:19	01/26/22 17:17	85-68-7	ED
Carbazole	<1250	ug/kg	3190	1250	5	01/20/22 08:19	01/26/22 17:17	86-74-8	ED
4-Chloro-3-methylphenol	<513	ug/kg	3190	513	5	01/20/22 08:19	01/26/22 17:17	59-50-7	ED
4-Chloroaniline	<561	ug/kg	3190	561	5	01/20/22 08:19	01/26/22 17:17	106-47-8	ED
bis(2-Chloroethoxy)methane	<1260	ug/kg	3190	1260	5	01/20/22 08:19	01/26/22 17:17	111-91-1	ED
bis(2-Chloroethyl) ether	<582	ug/kg	3190	582	5	01/20/22 08:19	01/26/22 17:17	111-44-4	ED
bis(2-Chloroisopropyl) ether	<2700	ug/kg	3190	2700	5	01/20/22 08:19	01/26/22 17:17	108-60-1	ED
2-Chloronaphthalene	<910	ug/kg	3190	910	5	01/20/22 08:19	01/26/22 17:17	91-58-7	ED
2-Chlorophenol	<993	ug/kg	3190	993	5	01/20/22 08:19	01/26/22 17:17	95-57-8	ED
4-Chlorophenylphenyl ether	<922	ug/kg	3190	922	5	01/20/22 08:19	01/26/22 17:17	7005-72-3	ED
Chrysene	<1180	ug/kg	3190	1180	5	01/20/22 08:19	01/26/22 17:17	218-01-9	ED
Dibenz(a,h)anthracene	<1210	ug/kg	3190	1210	5	01/20/22 08:19	01/26/22 17:17	53-70-3	ED
Dibenzofuran	<1020	ug/kg	3190	1020	5	01/20/22 08:19	01/26/22 17:17	132-64-9	ED
1,2-Dichlorobenzene	<997	ug/kg	3190	997	5	01/20/22 08:19	01/26/22 17:17	95-50-1	ED
1,3-Dichlorobenzene	<944	ug/kg	3190	944	5	01/20/22 08:19	01/26/22 17:17	541-73-1	ED
1,4-Dichlorobenzene	<440	ug/kg	3190	440	5	01/20/22 08:19	01/26/22 17:17	106-46-7	ED
3,3'-Dichlorobenzidine	<936	ug/kg	3190	936	5	01/20/22 08:19	01/26/22 17:17	91-94-1	ED
2,4-Dichlorophenol	<1430	ug/kg	3190	1430	5	01/20/22 08:19	01/26/22 17:17	120-83-2	ED
Diethylphthalate	<1120	ug/kg	3190	1120	5	01/20/22 08:19	01/26/22 17:17	84-66-2	ED
2,4-Dimethylphenol	<969	ug/kg	3190	969	5	01/20/22 08:19	01/26/22 17:17	105-67-9	ED
Dimethylphthalate	<983	ug/kg	3190	983	5	01/20/22 08:19	01/26/22 17:17	131-11-3	ED
Di-n-butylphthalate	<1080	ug/kg	3190	1080	5	01/20/22 08:19	01/26/22 17:17	84-74-2	ED
4,6-Dinitro-2-methylphenol	<2380	ug/kg	7980	2380	5	01/20/22 08:19	01/26/22 17:17	534-52-1	ED,L1
2,4-Dinitrophenol	<7170	ug/kg	7980	7170	5	01/20/22 08:19	01/26/22 17:17	51-28-5	ED
2,4-Dinitrotoluene	<968	ug/kg	3190	968	5	01/20/22 08:19	01/26/22 17:17	121-14-2	ED
2,6-Dinitrotoluene	<970	ug/kg	3190	970	5	01/20/22 08:19	01/26/22 17:17	606-20-2	ED
Di-n-octylphthalate	<724	ug/kg	3190	724	5	01/20/22 08:19	01/26/22 17:17	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<1020	ug/kg	3190	1020	5	01/20/22 08:19	01/26/22 17:17	117-81-7	ED
Fluoranthene	<1030	ug/kg	3190	1030	5	01/20/22 08:19	01/26/22 17:17	206-44-0	ED
Fluorene	<977	ug/kg	3190	977	5	01/20/22 08:19	01/26/22 17:17	86-73-7	ED
Hexachloro-1,3-butadiene	<1040	ug/kg	3190	1040	5	01/20/22 08:19	01/26/22 17:17	87-68-3	ED
Hexachlorobenzene	<916	ug/kg	3190	916	5	01/20/22 08:19	01/26/22 17:17	118-74-1	ED

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: Sed-DS**      **Lab ID: 30459395004**      Collected: 01/12/22 10:15      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Hexachlorocyclopentadiene	<754	ug/kg	3190	754	5	01/20/22 08:19	01/26/22 17:17	77-47-4	ED
Hexachloroethane	<861	ug/kg	3190	861	5	01/20/22 08:19	01/26/22 17:17	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<1200	ug/kg	3190	1200	5	01/20/22 08:19	01/26/22 17:17	193-39-5	ED
Isophorone	<1050	ug/kg	3190	1050	5	01/20/22 08:19	01/26/22 17:17	78-59-1	ED
1-Methylnaphthalene	<801	ug/kg	3190	801	5	01/20/22 08:19	01/26/22 17:17	90-12-0	ED
2-Methylnaphthalene	<958	ug/kg	3190	958	5	01/20/22 08:19	01/26/22 17:17	91-57-6	ED
2-Methylphenol(o-Cresol)	<1150	ug/kg	3190	1150	5	01/20/22 08:19	01/26/22 17:17	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<1960	ug/kg	6380	1960	5	01/20/22 08:19	01/26/22 17:17		ED
Naphthalene	<865	ug/kg	3190	865	5	01/20/22 08:19	01/26/22 17:17	91-20-3	ED
2-Nitroaniline	<1110	ug/kg	7980	1110	5	01/20/22 08:19	01/26/22 17:17	88-74-4	ED
3-Nitroaniline	<2080	ug/kg	7980	2080	5	01/20/22 08:19	01/26/22 17:17	99-09-2	ED
4-Nitroaniline	<4480	ug/kg	7980	4480	5	01/20/22 08:19	01/26/22 17:17	100-01-6	ED,L1
Nitrobenzene	<1180	ug/kg	3190	1180	5	01/20/22 08:19	01/26/22 17:17	98-95-3	ED
2-Nitrophenol	<1270	ug/kg	3190	1270	5	01/20/22 08:19	01/26/22 17:17	88-75-5	ED,L1
4-Nitrophenol	<1070	ug/kg	3190	1070	5	01/20/22 08:19	01/26/22 17:17	100-02-7	ED
N-Nitrosodimethylamine	<547	ug/kg	3190	547	5	01/20/22 08:19	01/26/22 17:17	62-75-9	ED
N-Nitroso-di-n-propylamine	<1350	ug/kg	3190	1350	5	01/20/22 08:19	01/26/22 17:17	621-64-7	ED
N-Nitrosodiphenylamine	<719	ug/kg	3190	719	5	01/20/22 08:19	01/26/22 17:17	86-30-6	ED
Pentachlorophenol	<4200	ug/kg	7980	4200	5	01/20/22 08:19	01/26/22 17:17	87-86-5	ED
Phenanthrene	<1400	ug/kg	3190	1400	5	01/20/22 08:19	01/26/22 17:17	85-01-8	ED
Phenol	<945	ug/kg	3190	945	5	01/20/22 08:19	01/26/22 17:17	108-95-2	ED
Pyrene	<1170	ug/kg	3190	1170	5	01/20/22 08:19	01/26/22 17:17	129-00-0	ED
1,2,4-Trichlorobenzene	<863	ug/kg	3190	863	5	01/20/22 08:19	01/26/22 17:17	120-82-1	ED
2,4,5-Trichlorophenol	<943	ug/kg	7980	943	5	01/20/22 08:19	01/26/22 17:17	95-95-4	ED
2,4,6-Trichlorophenol	<833	ug/kg	3190	833	5	01/20/22 08:19	01/26/22 17:17	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	104	%	41-112		5	01/20/22 08:19	01/26/22 17:17	4165-60-0	
2-Fluorobiphenyl (S)	112	%	49-108		5	01/20/22 08:19	01/26/22 17:17	321-60-8	ST
Terphenyl-d14 (S)	91	%	43-106		5	01/20/22 08:19	01/26/22 17:17	1718-51-0	
Phenol-d6 (S)	106	%	44-112		5	01/20/22 08:19	01/26/22 17:17	13127-88-3	
2-Fluorophenol (S)	105	%	44-113		5	01/20/22 08:19	01/26/22 17:17	367-12-4	
2,4,6-Tribromophenol (S)	82	%	31-133		5	01/20/22 08:19	01/26/22 17:17	118-79-6	

**Percent Moisture**

Analytical Method: ASTM D2974-87  
Pace Analytical Services - Greensburg

Percent Moisture	<b>48.7</b>	%	0.10	0.10	1		01/18/22 10:57		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-Trib**      **Lab ID: 30459395005**      Collected: 01/12/22 10:30      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D ICP, Water, 3010A</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Beaver									
Arsenic	<6.4	ug/L	20.0	6.4	1	02/04/22 07:24	02/07/22 14:45	7440-38-2	
Barium	60.2	ug/L	5.0	1.4	1	02/04/22 07:24	02/07/22 14:45	7440-39-3	
Cadmium	<1.8	ug/L	2.0	1.8	1	02/04/22 07:24	02/07/22 14:45	7440-43-9	
Chromium	<1.3	ug/L	5.0	1.3	1	02/04/22 07:24	02/07/22 14:45	7440-47-3	
Lead	<2.5	ug/L	10.0	2.5	1	02/04/22 07:24	02/07/22 14:45	7439-92-1	
Selenium	<9.2	ug/L	20.0	9.2	1	02/04/22 07:24	02/07/22 14:45	7782-49-2	
Silver	<2.6	ug/L	5.0	2.6	1	02/04/22 07:24	02/07/22 14:45	7440-22-4	
<b>BVR 7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Beaver									
Mercury	<0.20	ug/L	0.20	0.20	1	02/09/22 15:00	02/10/22 09:44	7439-97-6	H1
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Greensburg									
Acenaphthene	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 02:22	83-32-9	1c
Acenaphthylene	<0.65	ug/L	1.0	0.65	1	01/19/22 09:03	01/27/22 02:22	208-96-8	1c
Anthracene	<0.68	ug/L	1.0	0.68	1	01/19/22 09:03	01/27/22 02:22	120-12-7	1c
Azobenzene	<0.67	ug/L	1.0	0.67	1	01/19/22 09:03	01/27/22 02:22	103-33-3	1c
Benzo(a)anthracene	<0.79	ug/L	1.0	0.79	1	01/19/22 09:03	01/27/22 02:22	56-55-3	1c
Benzo(a)pyrene	<0.78	ug/L	1.0	0.78	1	01/19/22 09:03	01/27/22 02:22	50-32-8	1c
Benzo(b)fluoranthene	<0.77	ug/L	1.0	0.77	1	01/19/22 09:03	01/27/22 02:22	205-99-2	1c
Benzo(g,h,i)perylene	<0.82	ug/L	1.0	0.82	1	01/19/22 09:03	01/27/22 02:22	191-24-2	1c
Benzo(k)fluoranthene	<0.74	ug/L	1.0	0.74	1	01/19/22 09:03	01/27/22 02:22	207-08-9	1c
Benzoic acid	<4.4	ug/L	15.5	4.4	1	01/19/22 09:03	01/27/22 02:22	65-85-0	1c
Benzyl alcohol	<1.0	ug/L	1.0	1.0	1	01/19/22 09:03	01/27/22 02:22	100-51-6	1c
4-Bromophenylphenyl ether	<0.70	ug/L	1.0	0.70	1	01/19/22 09:03	01/27/22 02:22	101-55-3	1c
Butylbenzylphthalate	<1.7	ug/L	2.6	1.7	1	01/19/22 09:03	01/27/22 02:22	85-68-7	1c
Carbazole	<0.72	ug/L	1.0	0.72	1	01/19/22 09:03	01/27/22 02:22	86-74-8	1c
4-Chloro-3-methylphenol	<0.65	ug/L	1.0	0.65	1	01/19/22 09:03	01/27/22 02:22	59-50-7	1c,L1
4-Chloroaniline	<0.52	ug/L	1.0	0.52	1	01/19/22 09:03	01/27/22 02:22	106-47-8	1c,L1
bis(2-Chloroethoxy)methane	<0.60	ug/L	1.0	0.60	1	01/19/22 09:03	01/27/22 02:22	111-91-1	1c
bis(2-Chloroethyl) ether	<0.55	ug/L	1.0	0.55	1	01/19/22 09:03	01/27/22 02:22	111-44-4	1c
bis(2-Chloroisopropyl) ether	<0.64	ug/L	1.0	0.64	1	01/19/22 09:03	01/27/22 02:22	108-60-1	1c
2-Chloronaphthalene	<0.68	ug/L	1.0	0.68	1	01/19/22 09:03	01/27/22 02:22	91-58-7	1c
2-Chlorophenol	<0.60	ug/L	1.0	0.60	1	01/19/22 09:03	01/27/22 02:22	95-57-8	1c
4-Chlorophenylphenyl ether	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 02:22	7005-72-3	1c
Chrysene	<0.82	ug/L	1.0	0.82	1	01/19/22 09:03	01/27/22 02:22	218-01-9	1c
Dibenz(a,h)anthracene	<0.78	ug/L	1.0	0.78	1	01/19/22 09:03	01/27/22 02:22	53-70-3	1c
Dibenzofuran	<0.60	ug/L	1.0	0.60	1	01/19/22 09:03	01/27/22 02:22	132-64-9	1c
1,2-Dichlorobenzene	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 02:22	95-50-1	1c
1,3-Dichlorobenzene	<0.58	ug/L	1.0	0.58	1	01/19/22 09:03	01/27/22 02:22	541-73-1	1c
1,4-Dichlorobenzene	<0.58	ug/L	1.0	0.58	1	01/19/22 09:03	01/27/22 02:22	106-46-7	1c
3,3'-Dichlorobenzidine	<0.84	ug/L	1.0	0.84	1	01/19/22 09:03	01/27/22 02:22	91-94-1	1c
2,4-Dichlorophenol	<0.63	ug/L	1.0	0.63	1	01/19/22 09:03	01/27/22 02:22	120-83-2	1c
Diethylphthalate	<0.65	ug/L	1.0	0.65	1	01/19/22 09:03	01/27/22 02:22	84-66-2	1c

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-Trib**      **Lab ID: 30459395005**      Collected: 01/12/22 10:30      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Greensburg									
2,4-Dimethylphenol	<0.66	ug/L	1.0	0.66	1	01/19/22 09:03	01/27/22 02:22	105-67-9	1c,L1
Dimethylphthalate	<0.65	ug/L	1.0	0.65	1	01/19/22 09:03	01/27/22 02:22	131-11-3	1c
Di-n-butylphthalate	<0.83	ug/L	1.0	0.83	1	01/19/22 09:03	01/27/22 02:22	84-74-2	1c
4,6-Dinitro-2-methylphenol	<0.81	ug/L	2.6	0.81	1	01/19/22 09:03	01/27/22 02:22	534-52-1	1c
2,4-Dinitrophenol	<0.81	ug/L	2.6	0.81	1	01/19/22 09:03	01/27/22 02:22	51-28-5	1c
2,4-Dinitrotoluene	<0.48	ug/L	1.0	0.48	1	01/19/22 09:03	01/27/22 02:22	121-14-2	1c
2,6-Dinitrotoluene	<0.57	ug/L	1.0	0.57	1	01/19/22 09:03	01/27/22 02:22	606-20-2	1c
Di-n-octylphthalate	<1.1	ug/L	2.6	1.1	1	01/19/22 09:03	01/27/22 02:22	117-84-0	1c
bis(2-Ethylhexyl)phthalate	<1.5	ug/L	2.6	1.5	1	01/19/22 09:03	01/27/22 02:22	117-81-7	1c
Fluoranthene	<0.73	ug/L	1.0	0.73	1	01/19/22 09:03	01/27/22 02:22	206-44-0	1c
Fluorene	<0.63	ug/L	1.0	0.63	1	01/19/22 09:03	01/27/22 02:22	86-73-7	1c
Hexachloro-1,3-butadiene	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 02:22	87-68-3	1c
Hexachlorobenzene	<0.70	ug/L	1.0	0.70	1	01/19/22 09:03	01/27/22 02:22	118-74-1	1c
Hexachlorocyclopentadiene	<0.59	ug/L	1.0	0.59	1	01/19/22 09:03	01/27/22 02:22	77-47-4	1c,L1
Hexachloroethane	<0.59	ug/L	1.0	0.59	1	01/19/22 09:03	01/27/22 02:22	67-72-1	1c
Indeno(1,2,3-cd)pyrene	<0.72	ug/L	1.0	0.72	1	01/19/22 09:03	01/27/22 02:22	193-39-5	1c
Isophorone	<0.62	ug/L	1.0	0.62	1	01/19/22 09:03	01/27/22 02:22	78-59-1	1c,L1
1-Methylnaphthalene	<0.60	ug/L	1.0	0.60	1	01/19/22 09:03	01/27/22 02:22	90-12-0	1c,L1
2-Methylnaphthalene	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 02:22	91-57-6	1c
2-Methylphenol(o-Cresol)	<0.51	ug/L	1.0	0.51	1	01/19/22 09:03	01/27/22 02:22	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	<0.91	ug/L	2.1	0.91	1	01/19/22 09:03	01/27/22 02:22		1c
Naphthalene	<0.69	ug/L	1.0	0.69	1	01/19/22 09:03	01/27/22 02:22	91-20-3	1c,L1
2-Nitroaniline	<1.3	ug/L	2.6	1.3	1	01/19/22 09:03	01/27/22 02:22	88-74-4	1c
3-Nitroaniline	<1.4	ug/L	2.6	1.4	1	01/19/22 09:03	01/27/22 02:22	99-09-2	1c
4-Nitroaniline	<1.4	ug/L	2.6	1.4	1	01/19/22 09:03	01/27/22 02:22	100-01-6	1c
Nitrobenzene	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 02:22	98-95-3	1c
2-Nitrophenol	<0.69	ug/L	1.0	0.69	1	01/19/22 09:03	01/27/22 02:22	88-75-5	1c
4-Nitrophenol	<0.36	ug/L	1.0	0.36	1	01/19/22 09:03	01/27/22 02:22	100-02-7	1c
N-Nitrosodimethylamine	<0.35	ug/L	1.0	0.35	1	01/19/22 09:03	01/27/22 02:22	62-75-9	1c
N-Nitroso-di-n-propylamine	<0.60	ug/L	1.0	0.60	1	01/19/22 09:03	01/27/22 02:22	621-64-7	1c
N-Nitrosodiphenylamine	<0.70	ug/L	1.0	0.70	1	01/19/22 09:03	01/27/22 02:22	86-30-6	1c
Pentachlorophenol	<1.6	ug/L	2.6	1.6	1	01/19/22 09:03	01/27/22 02:22	87-86-5	1c
Phenanthrene	<0.68	ug/L	1.0	0.68	1	01/19/22 09:03	01/27/22 02:22	85-01-8	1c
Phenol	0.26J	ug/L	1.0	0.26	1	01/19/22 09:03	01/27/22 02:22	108-95-2	1c
Pyrene	<0.78	ug/L	1.0	0.78	1	01/19/22 09:03	01/27/22 02:22	129-00-0	1c
1,2,4-Trichlorobenzene	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 02:22	120-82-1	1c,L1
2,4,5-Trichlorophenol	<1.7	ug/L	2.6	1.7	1	01/19/22 09:03	01/27/22 02:22	95-95-4	1c
2,4,6-Trichlorophenol	<0.61	ug/L	1.0	0.61	1	01/19/22 09:03	01/27/22 02:22	88-06-2	1c
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	89	%	10-140		1	01/19/22 09:03	01/27/22 02:22	4165-60-0	
2-Fluorobiphenyl (S)	89	%	10-135		1	01/19/22 09:03	01/27/22 02:22	321-60-8	
Terphenyl-d14 (S)	99	%	10-128		1	01/19/22 09:03	01/27/22 02:22	1718-51-0	
Phenol-d6 (S)	37	%	10-145		1	01/19/22 09:03	01/27/22 02:22	13127-88-3	
2-Fluorophenol (S)	56	%	10-142		1	01/19/22 09:03	01/27/22 02:22	367-12-4	
2,4,6-Tribromophenol (S)	99	%	10-140		1	01/19/22 09:03	01/27/22 02:22	118-79-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-Trib**      **Lab ID: 30459395005**      Collected: 01/12/22 10:30      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>									
Analytical Method: EPA 8260C									
Pace Analytical Services - Greensburg									
Acetone	<5.6	ug/L	10.0	5.6	1		01/24/22 12:57	67-64-1	2c,CL, L2,ML
Benzene	<0.34	ug/L	1.0	0.34	1		01/24/22 12:57	71-43-2	
Bromochloromethane	<0.48	ug/L	1.0	0.48	1		01/24/22 12:57	74-97-5	
Bromodichloromethane	<0.35	ug/L	1.0	0.35	1		01/24/22 12:57	75-27-4	
Bromoform	<0.56	ug/L	1.0	0.56	1		01/24/22 12:57	75-25-2	CL
Bromomethane	<0.73	ug/L	1.0	0.73	1		01/24/22 12:57	74-83-9	CL
TOTAL BTEX	<2.4	ug/L	6.0	2.4	1		01/24/22 12:57		
2-Butanone (MEK)	<1.5	ug/L	10.0	1.5	1		01/24/22 12:57	78-93-3	
Carbon disulfide	<0.32	ug/L	1.0	0.32	1		01/24/22 12:57	75-15-0	
Carbon tetrachloride	<0.44	ug/L	1.0	0.44	1		01/24/22 12:57	56-23-5	
Chlorobenzene	<0.26	ug/L	1.0	0.26	1		01/24/22 12:57	108-90-7	
Chloroethane	<0.64	ug/L	1.0	0.64	1		01/24/22 12:57	75-00-3	CL
Chloroform	<0.39	ug/L	1.0	0.39	1		01/24/22 12:57	67-66-3	
Chloromethane	<0.40	ug/L	1.0	0.40	1		01/24/22 12:57	74-87-3	
Dibromochloromethane	<0.43	ug/L	1.0	0.43	1		01/24/22 12:57	124-48-1	
1,2-Dichlorobenzene	<0.38	ug/L	1.0	0.38	1		01/24/22 12:57	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		01/24/22 12:57	541-73-1	
1,4-Dichlorobenzene	<0.48	ug/L	1.0	0.48	1		01/24/22 12:57	106-46-7	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/24/22 12:57	75-34-3	
1,2-Dichloroethane	<0.33	ug/L	1.0	0.33	1		01/24/22 12:57	107-06-2	
1,2-Dichloroethene (Total)	<0.66	ug/L	2.0	0.66	1		01/24/22 12:57	540-59-0	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/24/22 12:57	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/L	1.0	0.38	1		01/24/22 12:57	156-59-2	
trans-1,2-Dichloroethene	<0.28	ug/L	1.0	0.28	1		01/24/22 12:57	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/24/22 12:57	78-87-5	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		01/24/22 12:57	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		01/24/22 12:57	10061-02-6	
Ethylbenzene	<0.40	ug/L	1.0	0.40	1		01/24/22 12:57	100-41-4	
2-Hexanone	<0.58	ug/L	10.0	0.58	1		01/24/22 12:57	591-78-6	
Isopropylbenzene (Cumene)	<0.47	ug/L	1.0	0.47	1		01/24/22 12:57	98-82-8	
Methylene Chloride	<0.64	ug/L	1.0	0.64	1		01/24/22 12:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	10.0	0.42	1		01/24/22 12:57	108-10-1	ML
Methyl-tert-butyl ether	<0.25	ug/L	1.0	0.25	1		01/24/22 12:57	1634-04-4	
Naphthalene	<0.82	ug/L	2.0	0.82	1		01/24/22 12:57	91-20-3	
Styrene	<0.33	ug/L	1.0	0.33	1		01/24/22 12:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.47	ug/L	1.0	0.47	1		01/24/22 12:57	79-34-5	
Tetrachloroethene	<0.39	ug/L	1.0	0.39	1		01/24/22 12:57	127-18-4	
Toluene	<0.32	ug/L	1.0	0.32	1		01/24/22 12:57	108-88-3	
1,2,4-Trichlorobenzene	<0.73	ug/L	1.0	0.73	1		01/24/22 12:57	120-82-1	
1,1,1-Trichloroethane	<0.38	ug/L	1.0	0.38	1		01/24/22 12:57	71-55-6	
1,1,2-Trichloroethane	<0.33	ug/L	1.0	0.33	1		01/24/22 12:57	79-00-5	
Trichloroethene	<0.29	ug/L	1.0	0.29	1		01/24/22 12:57	79-01-6	
1,2,4-Trimethylbenzene	<0.63	ug/L	1.0	0.63	1		01/24/22 12:57	95-63-6	
1,3,5-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/24/22 12:57	108-67-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-Trib**      **Lab ID: 30459395005**      Collected: 01/12/22 10:30      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>									
Analytical Method: EPA 8260C									
Pace Analytical Services - Greensburg									
Vinyl chloride	<0.29	ug/L	1.0	0.29	1		01/24/22 12:57	75-01-4	
Xylene (Total)	<1.4	ug/L	3.0	1.4	1		01/24/22 12:57	1330-20-7	
m&p-Xylene	<0.94	ug/L	2.0	0.94	1		01/24/22 12:57	179601-23-1	
o-Xylene	<0.41	ug/L	1.0	0.41	1		01/24/22 12:57	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		01/24/22 12:57	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		01/24/22 12:57	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		01/24/22 12:57	2037-26-5	
Dibromofluoromethane (S)	109	%	70-130		1		01/24/22 12:57	1868-53-7	

**Sample: SW-Trib-Dup**      **Lab ID: 30459395006**      Collected: 01/12/22 10:30      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E      Preparation Method: EPA 3510C									
Pace Analytical Services - Greensburg									
Acenaphthene	<0.59	ug/L	0.99	0.59	1	01/19/22 09:03	01/27/22 02:42	83-32-9	1c
Acenaphthylene	<0.63	ug/L	0.99	0.63	1	01/19/22 09:03	01/27/22 02:42	208-96-8	1c
Anthracene	<0.65	ug/L	0.99	0.65	1	01/19/22 09:03	01/27/22 02:42	120-12-7	1c
Azobenzene	<0.65	ug/L	0.99	0.65	1	01/19/22 09:03	01/27/22 02:42	103-33-3	1c
Benzo(a)anthracene	<0.76	ug/L	0.99	0.76	1	01/19/22 09:03	01/27/22 02:42	56-55-3	1c
Benzo(a)pyrene	<0.75	ug/L	0.99	0.75	1	01/19/22 09:03	01/27/22 02:42	50-32-8	1c
Benzo(b)fluoranthene	<0.74	ug/L	0.99	0.74	1	01/19/22 09:03	01/27/22 02:42	205-99-2	1c
Benzo(g,h,i)perylene	<0.79	ug/L	0.99	0.79	1	01/19/22 09:03	01/27/22 02:42	191-24-2	1c
Benzo(k)fluoranthene	<0.71	ug/L	0.99	0.71	1	01/19/22 09:03	01/27/22 02:42	207-08-9	1c
Benzoic acid	<4.3	ug/L	14.9	4.3	1	01/19/22 09:03	01/27/22 02:42	65-85-0	1c
Benzyl alcohol	<0.97	ug/L	0.99	0.97	1	01/19/22 09:03	01/27/22 02:42	100-51-6	1c
4-Bromophenylphenyl ether	<0.67	ug/L	0.99	0.67	1	01/19/22 09:03	01/27/22 02:42	101-55-3	1c
Butylbenzylphthalate	<1.6	ug/L	2.5	1.6	1	01/19/22 09:03	01/27/22 02:42	85-68-7	1c
Carbazole	<0.69	ug/L	0.99	0.69	1	01/19/22 09:03	01/27/22 02:42	86-74-8	1c
4-Chloro-3-methylphenol	<0.63	ug/L	0.99	0.63	1	01/19/22 09:03	01/27/22 02:42	59-50-7	1c,L1
4-Chloroaniline	<0.50	ug/L	0.99	0.50	1	01/19/22 09:03	01/27/22 02:42	106-47-8	1c,L1
bis(2-Chloroethoxy)methane	<0.57	ug/L	0.99	0.57	1	01/19/22 09:03	01/27/22 02:42	111-91-1	1c
bis(2-Chloroethyl) ether	<0.53	ug/L	0.99	0.53	1	01/19/22 09:03	01/27/22 02:42	111-44-4	1c
bis(2-Chloroisopropyl) ether	<0.62	ug/L	0.99	0.62	1	01/19/22 09:03	01/27/22 02:42	108-60-1	1c
2-Chloronaphthalene	<0.65	ug/L	0.99	0.65	1	01/19/22 09:03	01/27/22 02:42	91-58-7	1c
2-Chlorophenol	<0.58	ug/L	0.99	0.58	1	01/19/22 09:03	01/27/22 02:42	95-57-8	1c
4-Chlorophenylphenyl ether	<0.59	ug/L	0.99	0.59	1	01/19/22 09:03	01/27/22 02:42	7005-72-3	1c
Chrysene	<0.79	ug/L	0.99	0.79	1	01/19/22 09:03	01/27/22 02:42	218-01-9	1c
Dibenz(a,h)anthracene	<0.75	ug/L	0.99	0.75	1	01/19/22 09:03	01/27/22 02:42	53-70-3	1c
Dibenzofuran	<0.58	ug/L	0.99	0.58	1	01/19/22 09:03	01/27/22 02:42	132-64-9	1c
1,2-Dichlorobenzene	<0.59	ug/L	0.99	0.59	1	01/19/22 09:03	01/27/22 02:42	95-50-1	1c
1,3-Dichlorobenzene	<0.56	ug/L	0.99	0.56	1	01/19/22 09:03	01/27/22 02:42	541-73-1	1c

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-Trib-Dup**      **Lab ID: 30459395006**      Collected: 01/12/22 10:30      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C Pace Analytical Services - Greensburg									
1,4-Dichlorobenzene	<0.56	ug/L	0.99	0.56	1	01/19/22 09:03	01/27/22 02:42	106-46-7	1c
3,3'-Dichlorobenzidine	<0.80	ug/L	0.99	0.80	1	01/19/22 09:03	01/27/22 02:42	91-94-1	1c
2,4-Dichlorophenol	<0.60	ug/L	0.99	0.60	1	01/19/22 09:03	01/27/22 02:42	120-83-2	1c
Diethylphthalate	<0.63	ug/L	0.99	0.63	1	01/19/22 09:03	01/27/22 02:42	84-66-2	1c
2,4-Dimethylphenol	<0.64	ug/L	0.99	0.64	1	01/19/22 09:03	01/27/22 02:42	105-67-9	1c,L1
Dimethylphthalate	<0.63	ug/L	0.99	0.63	1	01/19/22 09:03	01/27/22 02:42	131-11-3	1c
Di-n-butylphthalate	<0.80	ug/L	0.99	0.80	1	01/19/22 09:03	01/27/22 02:42	84-74-2	1c
4,6-Dinitro-2-methylphenol	<0.78	ug/L	2.5	0.78	1	01/19/22 09:03	01/27/22 02:42	534-52-1	1c
2,4-Dinitrophenol	<0.77	ug/L	2.5	0.77	1	01/19/22 09:03	01/27/22 02:42	51-28-5	1c
2,4-Dinitrotoluene	<0.46	ug/L	0.99	0.46	1	01/19/22 09:03	01/27/22 02:42	121-14-2	1c
2,6-Dinitrotoluene	<0.55	ug/L	0.99	0.55	1	01/19/22 09:03	01/27/22 02:42	606-20-2	1c
Di-n-octylphthalate	<1.1	ug/L	2.5	1.1	1	01/19/22 09:03	01/27/22 02:42	117-84-0	1c
bis(2-Ethylhexyl)phthalate	<1.4	ug/L	2.5	1.4	1	01/19/22 09:03	01/27/22 02:42	117-81-7	1c
Fluoranthene	<0.70	ug/L	0.99	0.70	1	01/19/22 09:03	01/27/22 02:42	206-44-0	1c
Fluorene	<0.61	ug/L	0.99	0.61	1	01/19/22 09:03	01/27/22 02:42	86-73-7	1c
Hexachloro-1,3-butadiene	<0.59	ug/L	0.99	0.59	1	01/19/22 09:03	01/27/22 02:42	87-68-3	1c
Hexachlorobenzene	<0.67	ug/L	0.99	0.67	1	01/19/22 09:03	01/27/22 02:42	118-74-1	1c
Hexachlorocyclopentadiene	<0.56	ug/L	0.99	0.56	1	01/19/22 09:03	01/27/22 02:42	77-47-4	1c,L1
Hexachloroethane	<0.57	ug/L	0.99	0.57	1	01/19/22 09:03	01/27/22 02:42	67-72-1	1c
Indeno(1,2,3-cd)pyrene	<0.69	ug/L	0.99	0.69	1	01/19/22 09:03	01/27/22 02:42	193-39-5	1c
Isophorone	<0.60	ug/L	0.99	0.60	1	01/19/22 09:03	01/27/22 02:42	78-59-1	1c,L1
1-Methylnaphthalene	<0.57	ug/L	0.99	0.57	1	01/19/22 09:03	01/27/22 02:42	90-12-0	1c,L1
2-Methylnaphthalene	<0.58	ug/L	0.99	0.58	1	01/19/22 09:03	01/27/22 02:42	91-57-6	1c
2-Methylphenol(o-Cresol)	<0.49	ug/L	0.99	0.49	1	01/19/22 09:03	01/27/22 02:42	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	<0.88	ug/L	2.0	0.88	1	01/19/22 09:03	01/27/22 02:42		1c
Naphthalene	<0.66	ug/L	0.99	0.66	1	01/19/22 09:03	01/27/22 02:42	91-20-3	1c,L1
2-Nitroaniline	<1.2	ug/L	2.5	1.2	1	01/19/22 09:03	01/27/22 02:42	88-74-4	1c
3-Nitroaniline	<1.3	ug/L	2.5	1.3	1	01/19/22 09:03	01/27/22 02:42	99-09-2	1c
4-Nitroaniline	<1.4	ug/L	2.5	1.4	1	01/19/22 09:03	01/27/22 02:42	100-01-6	1c
Nitrobenzene	<0.58	ug/L	0.99	0.58	1	01/19/22 09:03	01/27/22 02:42	98-95-3	1c
2-Nitrophenol	<0.67	ug/L	0.99	0.67	1	01/19/22 09:03	01/27/22 02:42	88-75-5	1c
4-Nitrophenol	<0.35	ug/L	0.99	0.35	1	01/19/22 09:03	01/27/22 02:42	100-02-7	1c
N-Nitrosodimethylamine	<0.34	ug/L	0.99	0.34	1	01/19/22 09:03	01/27/22 02:42	62-75-9	1c
N-Nitroso-di-n-propylamine	<0.57	ug/L	0.99	0.57	1	01/19/22 09:03	01/27/22 02:42	621-64-7	1c
N-Nitrosodiphenylamine	<0.67	ug/L	0.99	0.67	1	01/19/22 09:03	01/27/22 02:42	86-30-6	1c
Pentachlorophenol	<1.5	ug/L	2.5	1.5	1	01/19/22 09:03	01/27/22 02:42	87-86-5	1c
Phenanthrene	<0.65	ug/L	0.99	0.65	1	01/19/22 09:03	01/27/22 02:42	85-01-8	1c
Phenol	0.26J	ug/L	0.99	0.25	1	01/19/22 09:03	01/27/22 02:42	108-95-2	1c
Pyrene	<0.75	ug/L	0.99	0.75	1	01/19/22 09:03	01/27/22 02:42	129-00-0	1c
1,2,4-Trichlorobenzene	<0.58	ug/L	0.99	0.58	1	01/19/22 09:03	01/27/22 02:42	120-82-1	1c,L1
2,4,5-Trichlorophenol	<1.6	ug/L	2.5	1.6	1	01/19/22 09:03	01/27/22 02:42	95-95-4	1c
2,4,6-Trichlorophenol	<0.59	ug/L	0.99	0.59	1	01/19/22 09:03	01/27/22 02:42	88-06-2	1c
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	88	%	10-140		1	01/19/22 09:03	01/27/22 02:42	4165-60-0	
2-Fluorobiphenyl (S)	86	%	10-135		1	01/19/22 09:03	01/27/22 02:42	321-60-8	

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SW-Trib-Dup**      **Lab ID: 30459395006**      Collected: 01/12/22 10:30      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E Organics Reduced Volume</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C Pace Analytical Services - Greensburg									
<b>Surrogates</b>									
Terphenyl-d14 (S)	99	%	10-128		1	01/19/22 09:03	01/27/22 02:42	1718-51-0	
Phenol-d6 (S)	34	%	10-145		1	01/19/22 09:03	01/27/22 02:42	13127-88-3	
2-Fluorophenol (S)	57	%	10-142		1	01/19/22 09:03	01/27/22 02:42	367-12-4	
2,4,6-Tribromophenol (S)	98	%	10-140		1	01/19/22 09:03	01/27/22 02:42	118-79-6	

**Sample: Sed-Trib**      **Lab ID: 30459395007**      Collected: 01/12/22 10:35      Received: 01/13/22 14:30      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B Pace Analytical Services - Beaver									
Arsenic	<b>9.1</b>	mg/kg	7.5	0.83	1	02/07/22 08:23	02/09/22 09:21	7440-38-2	
Barium	<b>204</b>	mg/kg	7.5	0.86	1	02/07/22 08:23	02/09/22 09:21	7440-39-3	
Cadmium	<b>0.53J</b>	mg/kg	1.5	0.18	1	02/07/22 08:23	02/09/22 09:21	7440-43-9	
Chromium	<b>20.5</b>	mg/kg	7.5	0.88	1	02/07/22 08:23	02/09/22 09:21	7440-47-3	
Lead	<b>139</b>	mg/kg	7.5	0.73	1	02/07/22 08:23	02/09/22 09:21	7439-92-1	
Selenium	<b>4.8J</b>	mg/kg	7.5	1.6	1	02/07/22 08:23	02/09/22 09:21	7782-49-2	
Silver	<b>16.6</b>	mg/kg	3.8	0.64	1	02/07/22 08:23	02/09/22 09:21	7440-22-4	

<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B Pace Analytical Services - Beaver									
Mercury	<b>0.21</b>	mg/kg	0.15	0.014	1	02/08/22 14:53	02/14/22 14:41	7439-97-6	H1

<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546 Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<b>&lt;149</b>	ug/kg	241	149	10	02/25/22 08:15	02/28/22 14:01	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<b>&lt;214</b>	ug/kg	241	214	10	02/25/22 08:15	02/28/22 14:01	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<b>&lt;219</b>	ug/kg	241	219	10	02/25/22 08:15	02/28/22 14:01	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<b>&lt;176</b>	ug/kg	241	176	10	02/25/22 08:15	02/28/22 14:01	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<b>&lt;139</b>	ug/kg	241	139	10	02/25/22 08:15	02/28/22 14:01	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<b>&lt;129</b>	ug/kg	241	129	10	02/25/22 08:15	02/28/22 14:01	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<b>&lt;137</b>	ug/kg	241	137	10	02/25/22 08:15	02/28/22 14:01	11096-82-5	ED
PCB, Total	<b>&lt;91.0</b>	ug/kg	241	91.0	10	02/25/22 08:15	02/28/22 14:01	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	46-120		10	02/25/22 08:15	02/28/22 14:01	877-09-8	
Decachlorobiphenyl (S)	141	%	41-148		10	02/25/22 08:15	02/28/22 14:01	2051-24-3	CH

<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546 Pace Analytical Services - Greensburg									
Acenaphthene	<b>&lt;1650</b>	ug/kg	4840	1650	10	01/20/22 08:19	01/26/22 17:39	83-32-9	ED
Acenaphthylene	<b>&lt;1450</b>	ug/kg	4840	1450	10	01/20/22 08:19	01/26/22 17:39	208-96-8	ED

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: Sed-Trib**      **Lab ID: 30459395007**      Collected: 01/12/22 10:35      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Anthracene	<1110	ug/kg	4840	1110	10	01/20/22 08:19	01/26/22 17:39	120-12-7	ED
Azobenzene	<1710	ug/kg	4840	1710	10	01/20/22 08:19	01/26/22 17:39	103-33-3	ED
Benzo(a)anthracene	2760J	ug/kg	4840	2170	10	01/20/22 08:19	01/26/22 17:39	56-55-3	ED
Benzo(a)pyrene	2440J	ug/kg	4840	1500	10	01/20/22 08:19	01/26/22 17:39	50-32-8	ED
Benzo(b)fluoranthene	4890	ug/kg	4840	1470	10	01/20/22 08:19	01/26/22 17:39	205-99-2	ED,lp
Benzo(g,h,i)perylene	<1680	ug/kg	4840	1680	10	01/20/22 08:19	01/26/22 17:39	191-24-2	ED
Benzo(k)fluoranthene	4070J	ug/kg	4840	2140	10	01/20/22 08:19	01/26/22 17:39	207-08-9	ED,lp
Benzoic acid	<24500	ug/kg	72600	24500	10	01/20/22 08:19	01/26/22 17:39	65-85-0	ED,L1
Benzyl alcohol	<4280	ug/kg	4840	4280	10	01/20/22 08:19	01/26/22 17:39	100-51-6	ED
4-Bromophenylphenyl ether	<1780	ug/kg	4840	1780	10	01/20/22 08:19	01/26/22 17:39	101-55-3	ED
Butylbenzylphthalate	<1360	ug/kg	4840	1360	10	01/20/22 08:19	01/26/22 17:39	85-68-7	ED
Carbazole	<1900	ug/kg	4840	1900	10	01/20/22 08:19	01/26/22 17:39	86-74-8	ED
4-Chloro-3-methylphenol	<779	ug/kg	4840	779	10	01/20/22 08:19	01/26/22 17:39	59-50-7	ED
4-Chloroaniline	<852	ug/kg	4840	852	10	01/20/22 08:19	01/26/22 17:39	106-47-8	ED
bis(2-Chloroethoxy)methane	<1920	ug/kg	4840	1920	10	01/20/22 08:19	01/26/22 17:39	111-91-1	ED
bis(2-Chloroethyl) ether	<884	ug/kg	4840	884	10	01/20/22 08:19	01/26/22 17:39	111-44-4	ED
bis(2-Chloroisopropyl) ether	<4110	ug/kg	4840	4110	10	01/20/22 08:19	01/26/22 17:39	108-60-1	ED
2-Chloronaphthalene	<1380	ug/kg	4840	1380	10	01/20/22 08:19	01/26/22 17:39	91-58-7	ED
2-Chlorophenol	<1510	ug/kg	4840	1510	10	01/20/22 08:19	01/26/22 17:39	95-57-8	ED
4-Chlorophenylphenyl ether	<1400	ug/kg	4840	1400	10	01/20/22 08:19	01/26/22 17:39	7005-72-3	ED
Chrysene	3190J	ug/kg	4840	1790	10	01/20/22 08:19	01/26/22 17:39	218-01-9	ED
Dibenz(a,h)anthracene	<1840	ug/kg	4840	1840	10	01/20/22 08:19	01/26/22 17:39	53-70-3	ED
Dibenzofuran	<1550	ug/kg	4840	1550	10	01/20/22 08:19	01/26/22 17:39	132-64-9	ED
1,2-Dichlorobenzene	<1510	ug/kg	4840	1510	10	01/20/22 08:19	01/26/22 17:39	95-50-1	ED
1,3-Dichlorobenzene	<1430	ug/kg	4840	1430	10	01/20/22 08:19	01/26/22 17:39	541-73-1	ED
1,4-Dichlorobenzene	<669	ug/kg	4840	669	10	01/20/22 08:19	01/26/22 17:39	106-46-7	ED
3,3'-Dichlorobenzidine	<1420	ug/kg	4840	1420	10	01/20/22 08:19	01/26/22 17:39	91-94-1	ED
2,4-Dichlorophenol	<2170	ug/kg	4840	2170	10	01/20/22 08:19	01/26/22 17:39	120-83-2	ED
Diethylphthalate	<1700	ug/kg	4840	1700	10	01/20/22 08:19	01/26/22 17:39	84-66-2	ED
2,4-Dimethylphenol	<1470	ug/kg	4840	1470	10	01/20/22 08:19	01/26/22 17:39	105-67-9	ED
Dimethylphthalate	<1490	ug/kg	4840	1490	10	01/20/22 08:19	01/26/22 17:39	131-11-3	ED
Di-n-butylphthalate	<1630	ug/kg	4840	1630	10	01/20/22 08:19	01/26/22 17:39	84-74-2	ED
4,6-Dinitro-2-methylphenol	<3610	ug/kg	12100	3610	10	01/20/22 08:19	01/26/22 17:39	534-52-1	ED,L1
2,4-Dinitrophenol	<10900	ug/kg	12100	10900	10	01/20/22 08:19	01/26/22 17:39	51-28-5	ED
2,4-Dinitrotoluene	<1470	ug/kg	4840	1470	10	01/20/22 08:19	01/26/22 17:39	121-14-2	ED
2,6-Dinitrotoluene	<1470	ug/kg	4840	1470	10	01/20/22 08:19	01/26/22 17:39	606-20-2	ED
Di-n-octylphthalate	<1100	ug/kg	4840	1100	10	01/20/22 08:19	01/26/22 17:39	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<1540	ug/kg	4840	1540	10	01/20/22 08:19	01/26/22 17:39	117-81-7	ED
Fluoranthene	6900	ug/kg	4840	1560	10	01/20/22 08:19	01/26/22 17:39	206-44-0	ED
Fluorene	<1480	ug/kg	4840	1480	10	01/20/22 08:19	01/26/22 17:39	86-73-7	ED
Hexachloro-1,3-butadiene	<1580	ug/kg	4840	1580	10	01/20/22 08:19	01/26/22 17:39	87-68-3	ED
Hexachlorobenzene	<1390	ug/kg	4840	1390	10	01/20/22 08:19	01/26/22 17:39	118-74-1	ED
Hexachlorocyclopentadiene	<1150	ug/kg	4840	1150	10	01/20/22 08:19	01/26/22 17:39	77-47-4	ED
Hexachloroethane	<1310	ug/kg	4840	1310	10	01/20/22 08:19	01/26/22 17:39	67-72-1	ED

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: Sed-Trib**      **Lab ID: 30459395007**      Collected: 01/12/22 10:35      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Indeno(1,2,3-cd)pyrene	<1820	ug/kg	4840	1820	10	01/20/22 08:19	01/26/22 17:39	193-39-5	ED
Isophorone	<1590	ug/kg	4840	1590	10	01/20/22 08:19	01/26/22 17:39	78-59-1	ED
1-Methylnaphthalene	<1220	ug/kg	4840	1220	10	01/20/22 08:19	01/26/22 17:39	90-12-0	ED
2-Methylnaphthalene	<1450	ug/kg	4840	1450	10	01/20/22 08:19	01/26/22 17:39	91-57-6	ED
2-Methylphenol(o-Cresol)	<1740	ug/kg	4840	1740	10	01/20/22 08:19	01/26/22 17:39	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<2970	ug/kg	9680	2970	10	01/20/22 08:19	01/26/22 17:39		ED
Naphthalene	<1310	ug/kg	4840	1310	10	01/20/22 08:19	01/26/22 17:39	91-20-3	ED
2-Nitroaniline	<1680	ug/kg	12100	1680	10	01/20/22 08:19	01/26/22 17:39	88-74-4	ED
3-Nitroaniline	<3160	ug/kg	12100	3160	10	01/20/22 08:19	01/26/22 17:39	99-09-2	ED
4-Nitroaniline	<6790	ug/kg	12100	6790	10	01/20/22 08:19	01/26/22 17:39	100-01-6	ED,L1
Nitrobenzene	<1790	ug/kg	4840	1790	10	01/20/22 08:19	01/26/22 17:39	98-95-3	ED
2-Nitrophenol	<1920	ug/kg	4840	1920	10	01/20/22 08:19	01/26/22 17:39	88-75-5	ED,L1
4-Nitrophenol	<1630	ug/kg	4840	1630	10	01/20/22 08:19	01/26/22 17:39	100-02-7	ED
N-Nitrosodimethylamine	<830	ug/kg	4840	830	10	01/20/22 08:19	01/26/22 17:39	62-75-9	ED
N-Nitroso-di-n-propylamine	<2050	ug/kg	4840	2050	10	01/20/22 08:19	01/26/22 17:39	621-64-7	ED
N-Nitrosodiphenylamine	<1090	ug/kg	4840	1090	10	01/20/22 08:19	01/26/22 17:39	86-30-6	ED
Pentachlorophenol	<6370	ug/kg	12100	6370	10	01/20/22 08:19	01/26/22 17:39	87-86-5	ED
Phenanthrene	4300J	ug/kg	4840	2130	10	01/20/22 08:19	01/26/22 17:39	85-01-8	ED
Phenol	<1430	ug/kg	4840	1430	10	01/20/22 08:19	01/26/22 17:39	108-95-2	ED
Pyrene	5440	ug/kg	4840	1770	10	01/20/22 08:19	01/26/22 17:39	129-00-0	ED
1,2,4-Trichlorobenzene	<1310	ug/kg	4840	1310	10	01/20/22 08:19	01/26/22 17:39	120-82-1	ED
2,4,5-Trichlorophenol	<1430	ug/kg	12100	1430	10	01/20/22 08:19	01/26/22 17:39	95-95-4	ED
2,4,6-Trichlorophenol	<1260	ug/kg	4840	1260	10	01/20/22 08:19	01/26/22 17:39	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	93	%	41-112		10	01/20/22 08:19	01/26/22 17:39	4165-60-0	
2-Fluorobiphenyl (S)	113	%	49-108		10	01/20/22 08:19	01/26/22 17:39	321-60-8	S4
Terphenyl-d14 (S)	111	%	43-106		10	01/20/22 08:19	01/26/22 17:39	1718-51-0	S4
Phenol-d6 (S)	100	%	44-112		10	01/20/22 08:19	01/26/22 17:39	13127-88-3	
2-Fluorophenol (S)	99	%	44-113		10	01/20/22 08:19	01/26/22 17:39	367-12-4	
2,4,6-Tribromophenol (S)	69	%	31-133		10	01/20/22 08:19	01/26/22 17:39	118-79-6	

**Percent Moisture**

Analytical Method: ASTM D2974-87  
Pace Analytical Services - Greensburg

Percent Moisture      **32.4**      %      0.10      0.10      1      01/18/22 10:57

**Sample: SB-05**      **Lab ID: 30459395008**      Collected: 01/12/22 10:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	8.0	mg/kg	7.3	0.81	1	02/07/22 08:23	02/09/22 09:24	7440-38-2	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-05**      **Lab ID: 30459395008**      Collected: 01/12/22 10:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Barium	<b>134</b>	mg/kg	7.3	0.84	1	02/07/22 08:23	02/09/22 09:24	7440-39-3	
Cadmium	<b>0.64J</b>	mg/kg	1.5	0.18	1	02/07/22 08:23	02/09/22 09:24	7440-43-9	
Chromium	<b>20.9</b>	mg/kg	7.3	0.85	1	02/07/22 08:23	02/09/22 09:24	7440-47-3	
Lead	<b>259</b>	mg/kg	7.3	0.71	1	02/07/22 08:23	02/09/22 09:24	7439-92-1	
Selenium	<b>2.5J</b>	mg/kg	7.3	1.5	1	02/07/22 08:23	02/09/22 09:24	7782-49-2	
Silver	<b>13.2</b>	mg/kg	3.7	0.62	1	02/07/22 08:23	02/09/22 09:24	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	<b>0.11J</b>	mg/kg	0.14	0.013	1	02/08/22 14:53	02/14/22 14:44	7439-97-6	H1
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<b>&lt;148</b>	ug/kg	240	148	10	02/25/22 08:15	02/28/22 14:19	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<b>&lt;212</b>	ug/kg	240	212	10	02/25/22 08:15	02/28/22 14:19	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<b>&lt;218</b>	ug/kg	240	218	10	02/25/22 08:15	02/28/22 14:19	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<b>&lt;175</b>	ug/kg	240	175	10	02/25/22 08:15	02/28/22 14:19	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<b>&lt;138</b>	ug/kg	240	138	10	02/25/22 08:15	02/28/22 14:19	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<b>&lt;128</b>	ug/kg	240	128	10	02/25/22 08:15	02/28/22 14:19	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<b>&lt;136</b>	ug/kg	240	136	10	02/25/22 08:15	02/28/22 14:19	11096-82-5	ED,MH
PCB, Total	<b>&lt;90.5</b>	ug/kg	240	90.5	10	02/25/22 08:15	02/28/22 14:19	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	77	%	46-120		10	02/25/22 08:15	02/28/22 14:19	877-09-8	
Decachlorobiphenyl (S)	107	%	41-148		10	02/25/22 08:15	02/28/22 14:19	2051-24-3	CH
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<b>&lt;3210</b>	ug/kg	9460	3210	20	01/20/22 08:19	01/26/22 18:01	83-32-9	ED
Acenaphthylene	<b>&lt;2840</b>	ug/kg	9460	2840	20	01/20/22 08:19	01/26/22 18:01	208-96-8	ED
Anthracene	<b>&lt;2170</b>	ug/kg	9460	2170	20	01/20/22 08:19	01/26/22 18:01	120-12-7	ED
Azobenzene	<b>&lt;3340</b>	ug/kg	9460	3340	20	01/20/22 08:19	01/26/22 18:01	103-33-3	ED
Benzo(a)anthracene	<b>6870J</b>	ug/kg	9460	4250	20	01/20/22 08:19	01/26/22 18:01	56-55-3	ED
Benzo(a)pyrene	<b>6290J</b>	ug/kg	9460	2940	20	01/20/22 08:19	01/26/22 18:01	50-32-8	ED
Benzo(b)fluoranthene	<b>12000</b>	ug/kg	9460	2870	20	01/20/22 08:19	01/26/22 18:01	205-99-2	ED,lp
Benzo(g,h,i)perylene	<b>&lt;3280</b>	ug/kg	9460	3280	20	01/20/22 08:19	01/26/22 18:01	191-24-2	ED
Benzo(k)fluoranthene	<b>10000</b>	ug/kg	9460	4180	20	01/20/22 08:19	01/26/22 18:01	207-08-9	ED,lp
Benzoic acid	<b>&lt;47900</b>	ug/kg	142000	47900	20	01/20/22 08:19	01/26/22 18:01	65-85-0	ED,L1
Benzyl alcohol	<b>&lt;8360</b>	ug/kg	9460	8360	20	01/20/22 08:19	01/26/22 18:01	100-51-6	ED
4-Bromophenylphenyl ether	<b>&lt;3480</b>	ug/kg	9460	3480	20	01/20/22 08:19	01/26/22 18:01	101-55-3	ED
Butylbenzylphthalate	<b>&lt;2660</b>	ug/kg	9460	2660	20	01/20/22 08:19	01/26/22 18:01	85-68-7	ED
Carbazole	<b>&lt;3710</b>	ug/kg	9460	3710	20	01/20/22 08:19	01/26/22 18:01	86-74-8	ED
4-Chloro-3-methylphenol	<b>&lt;1520</b>	ug/kg	9460	1520	20	01/20/22 08:19	01/26/22 18:01	59-50-7	ED
4-Chloroaniline	<b>&lt;1660</b>	ug/kg	9460	1660	20	01/20/22 08:19	01/26/22 18:01	106-47-8	ED
bis(2-Chloroethoxy)methane	<b>&lt;3740</b>	ug/kg	9460	3740	20	01/20/22 08:19	01/26/22 18:01	111-91-1	ED

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-05**      **Lab ID: 30459395008**      Collected: 01/12/22 10:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
bis(2-Chloroethyl) ether	<1730	ug/kg	9460	1730	20	01/20/22 08:19	01/26/22 18:01	111-44-4	ED
bis(2-Chloroisopropyl) ether	<8020	ug/kg	9460	8020	20	01/20/22 08:19	01/26/22 18:01	108-60-1	ED
2-Chloronaphthalene	<2700	ug/kg	9460	2700	20	01/20/22 08:19	01/26/22 18:01	91-58-7	ED
2-Chlorophenol	<2940	ug/kg	9460	2940	20	01/20/22 08:19	01/26/22 18:01	95-57-8	ED
4-Chlorophenylphenyl ether	<2730	ug/kg	9460	2730	20	01/20/22 08:19	01/26/22 18:01	7005-72-3	ED
Chrysene	7360J	ug/kg	9460	3500	20	01/20/22 08:19	01/26/22 18:01	218-01-9	ED
Dibenz(a,h)anthracene	<3600	ug/kg	9460	3600	20	01/20/22 08:19	01/26/22 18:01	53-70-3	ED
Dibenzofuran	<3030	ug/kg	9460	3030	20	01/20/22 08:19	01/26/22 18:01	132-64-9	ED
1,2-Dichlorobenzene	<2960	ug/kg	9460	2960	20	01/20/22 08:19	01/26/22 18:01	95-50-1	ED
1,3-Dichlorobenzene	<2800	ug/kg	9460	2800	20	01/20/22 08:19	01/26/22 18:01	541-73-1	ED
1,4-Dichlorobenzene	<1310	ug/kg	9460	1310	20	01/20/22 08:19	01/26/22 18:01	106-46-7	ED
3,3'-Dichlorobenzidine	<2780	ug/kg	9460	2780	20	01/20/22 08:19	01/26/22 18:01	91-94-1	ED
2,4-Dichlorophenol	<4250	ug/kg	9460	4250	20	01/20/22 08:19	01/26/22 18:01	120-83-2	ED
Diethylphthalate	<3330	ug/kg	9460	3330	20	01/20/22 08:19	01/26/22 18:01	84-66-2	ED
2,4-Dimethylphenol	<2870	ug/kg	9460	2870	20	01/20/22 08:19	01/26/22 18:01	105-67-9	ED
Dimethylphthalate	<2920	ug/kg	9460	2920	20	01/20/22 08:19	01/26/22 18:01	131-11-3	ED
Di-n-butylphthalate	<3190	ug/kg	9460	3190	20	01/20/22 08:19	01/26/22 18:01	84-74-2	ED
4,6-Dinitro-2-methylphenol	<7050	ug/kg	23700	7050	20	01/20/22 08:19	01/26/22 18:01	534-52-1	ED,L1
2,4-Dinitrophenol	<21300	ug/kg	23700	21300	20	01/20/22 08:19	01/26/22 18:01	51-28-5	ED
2,4-Dinitrotoluene	<2870	ug/kg	9460	2870	20	01/20/22 08:19	01/26/22 18:01	121-14-2	ED
2,6-Dinitrotoluene	<2880	ug/kg	9460	2880	20	01/20/22 08:19	01/26/22 18:01	606-20-2	ED
Di-n-octylphthalate	<2150	ug/kg	9460	2150	20	01/20/22 08:19	01/26/22 18:01	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<3020	ug/kg	9460	3020	20	01/20/22 08:19	01/26/22 18:01	117-81-7	ED
Fluoranthene	16000	ug/kg	9460	3040	20	01/20/22 08:19	01/26/22 18:01	206-44-0	ED
Fluorene	<2900	ug/kg	9460	2900	20	01/20/22 08:19	01/26/22 18:01	86-73-7	ED
Hexachloro-1,3-butadiene	<3080	ug/kg	9460	3080	20	01/20/22 08:19	01/26/22 18:01	87-68-3	ED
Hexachlorobenzene	<2720	ug/kg	9460	2720	20	01/20/22 08:19	01/26/22 18:01	118-74-1	ED
Hexachlorocyclopentadiene	<2240	ug/kg	9460	2240	20	01/20/22 08:19	01/26/22 18:01	77-47-4	ED
Hexachloroethane	<2550	ug/kg	9460	2550	20	01/20/22 08:19	01/26/22 18:01	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<3560	ug/kg	9460	3560	20	01/20/22 08:19	01/26/22 18:01	193-39-5	ED
Isophorone	<3110	ug/kg	9460	3110	20	01/20/22 08:19	01/26/22 18:01	78-59-1	ED
1-Methylnaphthalene	<2380	ug/kg	9460	2380	20	01/20/22 08:19	01/26/22 18:01	90-12-0	ED
2-Methylnaphthalene	<2840	ug/kg	9460	2840	20	01/20/22 08:19	01/26/22 18:01	91-57-6	ED
2-Methylphenol(o-Cresol)	<3400	ug/kg	9460	3400	20	01/20/22 08:19	01/26/22 18:01	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<5810	ug/kg	18900	5810	20	01/20/22 08:19	01/26/22 18:01		ED
Naphthalene	<2560	ug/kg	9460	2560	20	01/20/22 08:19	01/26/22 18:01	91-20-3	ED
2-Nitroaniline	<3290	ug/kg	23700	3290	20	01/20/22 08:19	01/26/22 18:01	88-74-4	ED
3-Nitroaniline	<6170	ug/kg	23700	6170	20	01/20/22 08:19	01/26/22 18:01	99-09-2	ED
4-Nitroaniline	<13300	ug/kg	23700	13300	20	01/20/22 08:19	01/26/22 18:01	100-01-6	ED,L1
Nitrobenzene	<3500	ug/kg	9460	3500	20	01/20/22 08:19	01/26/22 18:01	98-95-3	ED
2-Nitrophenol	<3750	ug/kg	9460	3750	20	01/20/22 08:19	01/26/22 18:01	88-75-5	ED,L1
4-Nitrophenol	<3180	ug/kg	9460	3180	20	01/20/22 08:19	01/26/22 18:01	100-02-7	ED
N-Nitrosodimethylamine	<1620	ug/kg	9460	1620	20	01/20/22 08:19	01/26/22 18:01	62-75-9	ED
N-Nitroso-di-n-propylamine	<4000	ug/kg	9460	4000	20	01/20/22 08:19	01/26/22 18:01	621-64-7	ED

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-05**      **Lab ID: 30459395008**      Collected: 01/12/22 10:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
N-Nitrosodiphenylamine	<2130	ug/kg	9460	2130	20	01/20/22 08:19	01/26/22 18:01	86-30-6	ED
Pentachlorophenol	<12500	ug/kg	23700	12500	20	01/20/22 08:19	01/26/22 18:01	87-86-5	ED
Phenanthrene	7400J	ug/kg	9460	4160	20	01/20/22 08:19	01/26/22 18:01	85-01-8	ED
Phenol	<2800	ug/kg	9460	2800	20	01/20/22 08:19	01/26/22 18:01	108-95-2	ED
Pyrene	13200	ug/kg	9460	3460	20	01/20/22 08:19	01/26/22 18:01	129-00-0	ED
1,2,4-Trichlorobenzene	<2560	ug/kg	9460	2560	20	01/20/22 08:19	01/26/22 18:01	120-82-1	ED
2,4,5-Trichlorophenol	<2800	ug/kg	23700	2800	20	01/20/22 08:19	01/26/22 18:01	95-95-4	ED
2,4,6-Trichlorophenol	<2470	ug/kg	9460	2470	20	01/20/22 08:19	01/26/22 18:01	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	115	%	41-112		20	01/20/22 08:19	01/26/22 18:01	4165-60-0	S4
2-Fluorobiphenyl (S)	139	%	49-108		20	01/20/22 08:19	01/26/22 18:01	321-60-8	S4
Terphenyl-d14 (S)	134	%	43-106		20	01/20/22 08:19	01/26/22 18:01	1718-51-0	S4
Phenol-d6 (S)	129	%	44-112		20	01/20/22 08:19	01/26/22 18:01	13127-88-3	S4
2-Fluorophenol (S)	128	%	44-113		20	01/20/22 08:19	01/26/22 18:01	367-12-4	S4
2,4,6-Tribromophenol (S)	87	%	31-133		20	01/20/22 08:19	01/26/22 18:01	118-79-6	

**Percent Moisture**

Analytical Method: ASTM D2974-87  
Pace Analytical Services - Greensburg

Percent Moisture	31.0	%	0.10	0.10	1		01/18/22 10:57		
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**Sample: SB-05-MS**      **Lab ID: 30459395009**      Collected: 01/12/22 10:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	6.5J	mg/kg	7.9	0.87	1	02/07/22 08:23	02/09/22 09:26	7440-38-2	
Barium	113	mg/kg	7.9	0.90	1	02/07/22 08:23	02/09/22 09:26	7440-39-3	
Cadmium	0.45J	mg/kg	1.6	0.19	1	02/07/22 08:23	02/09/22 09:26	7440-43-9	
Chromium	20.4	mg/kg	7.9	0.92	1	02/07/22 08:23	02/09/22 09:26	7440-47-3	
Lead	135	mg/kg	7.9	0.76	1	02/07/22 08:23	02/09/22 09:26	7439-92-1	
Selenium	4.3J	mg/kg	7.9	1.7	1	02/07/22 08:23	02/09/22 09:26	7782-49-2	
Silver	14.8	mg/kg	4.0	0.67	1	02/07/22 08:23	02/09/22 09:26	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	0.10J	mg/kg	0.15	0.014	1	02/08/22 14:53	02/14/22 14:49	7439-97-6	H1
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<161	ug/kg	261	161	10	02/25/22 08:15	02/28/22 14:52	12674-11-2	ED

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-05-MS**      **Lab ID: 30459395009**      Collected: 01/12/22 10:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1221 (Aroclor 1221)	<231	ug/kg	261	231	10	02/25/22 08:15	02/28/22 14:52	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<237	ug/kg	261	237	10	02/25/22 08:15	02/28/22 14:52	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<190	ug/kg	261	190	10	02/25/22 08:15	02/28/22 14:52	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<150	ug/kg	261	150	10	02/25/22 08:15	02/28/22 14:52	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<139	ug/kg	261	139	10	02/25/22 08:15	02/28/22 14:52	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<148	ug/kg	261	148	10	02/25/22 08:15	02/28/22 14:52	11096-82-5	ED
PCB, Total	<98.3	ug/kg	261	98.3	10	02/25/22 08:15	02/28/22 14:52	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	46-120		10	02/25/22 08:15	02/28/22 14:52	877-09-8	
Decachlorobiphenyl (S)	98	%	41-148		10	02/25/22 08:15	02/28/22 14:52	2051-24-3	CH
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<1780	ug/kg	5230	1780	10	01/20/22 08:19	01/26/22 18:22	83-32-9	ED
Acenaphthylene	<1570	ug/kg	5230	1570	10	01/20/22 08:19	01/26/22 18:22	208-96-8	ED
Anthracene	<1200	ug/kg	5230	1200	10	01/20/22 08:19	01/26/22 18:22	120-12-7	ED
Azobenzene	<1840	ug/kg	5230	1840	10	01/20/22 08:19	01/26/22 18:22	103-33-3	ED
Benzo(a)anthracene	<2350	ug/kg	5230	2350	10	01/20/22 08:19	01/26/22 18:22	56-55-3	ED
Benzo(a)pyrene	1650J	ug/kg	5230	1620	10	01/20/22 08:19	01/26/22 18:22	50-32-8	ED
Benzo(b)fluoranthene	3270J	ug/kg	5230	1590	10	01/20/22 08:19	01/26/22 18:22	205-99-2	ED,lp
Benzo(g,h,i)perylene	<1810	ug/kg	5230	1810	10	01/20/22 08:19	01/26/22 18:22	191-24-2	ED
Benzo(k)fluoranthene	2720J	ug/kg	5230	2310	10	01/20/22 08:19	01/26/22 18:22	207-08-9	ED,lp
Benzoic acid	<26500	ug/kg	78400	26500	10	01/20/22 08:19	01/26/22 18:22	65-85-0	ED,L1
Benzyl alcohol	<4620	ug/kg	5230	4620	10	01/20/22 08:19	01/26/22 18:22	100-51-6	ED
4-Bromophenylphenyl ether	<1920	ug/kg	5230	1920	10	01/20/22 08:19	01/26/22 18:22	101-55-3	ED
Butylbenzylphthalate	<1470	ug/kg	5230	1470	10	01/20/22 08:19	01/26/22 18:22	85-68-7	ED
Carbazole	<2050	ug/kg	5230	2050	10	01/20/22 08:19	01/26/22 18:22	86-74-8	ED
4-Chloro-3-methylphenol	<841	ug/kg	5230	841	10	01/20/22 08:19	01/26/22 18:22	59-50-7	ED
4-Chloroaniline	<919	ug/kg	5230	919	10	01/20/22 08:19	01/26/22 18:22	106-47-8	ED
bis(2-Chloroethoxy)methane	<2070	ug/kg	5230	2070	10	01/20/22 08:19	01/26/22 18:22	111-91-1	ED
bis(2-Chloroethyl) ether	<954	ug/kg	5230	954	10	01/20/22 08:19	01/26/22 18:22	111-44-4	ED
bis(2-Chloroisopropyl) ether	<4430	ug/kg	5230	4430	10	01/20/22 08:19	01/26/22 18:22	108-60-1	ED
2-Chloronaphthalene	<1490	ug/kg	5230	1490	10	01/20/22 08:19	01/26/22 18:22	91-58-7	ED
2-Chlorophenol	<1630	ug/kg	5230	1630	10	01/20/22 08:19	01/26/22 18:22	95-57-8	ED
4-Chlorophenylphenyl ether	<1510	ug/kg	5230	1510	10	01/20/22 08:19	01/26/22 18:22	7005-72-3	ED
Chrysene	2030J	ug/kg	5230	1930	10	01/20/22 08:19	01/26/22 18:22	218-01-9	ED
Dibenz(a,h)anthracene	<1990	ug/kg	5230	1990	10	01/20/22 08:19	01/26/22 18:22	53-70-3	ED
Dibenzofuran	<1680	ug/kg	5230	1680	10	01/20/22 08:19	01/26/22 18:22	132-64-9	ED
1,2-Dichlorobenzene	<1630	ug/kg	5230	1630	10	01/20/22 08:19	01/26/22 18:22	95-50-1	ED
1,3-Dichlorobenzene	<1550	ug/kg	5230	1550	10	01/20/22 08:19	01/26/22 18:22	541-73-1	ED
1,4-Dichlorobenzene	<722	ug/kg	5230	722	10	01/20/22 08:19	01/26/22 18:22	106-46-7	ED
3,3'-Dichlorobenzidine	<1530	ug/kg	5230	1530	10	01/20/22 08:19	01/26/22 18:22	91-94-1	ED
2,4-Dichlorophenol	<2350	ug/kg	5230	2350	10	01/20/22 08:19	01/26/22 18:22	120-83-2	ED
Diethylphthalate	<1840	ug/kg	5230	1840	10	01/20/22 08:19	01/26/22 18:22	84-66-2	ED

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-05-MS**      **Lab ID: 30459395009**      Collected: 01/12/22 10:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
2,4-Dimethylphenol	<1590	ug/kg	5230	1590	10	01/20/22 08:19	01/26/22 18:22	105-67-9	ED
Dimethylphthalate	<1610	ug/kg	5230	1610	10	01/20/22 08:19	01/26/22 18:22	131-11-3	ED
Di-n-butylphthalate	<1760	ug/kg	5230	1760	10	01/20/22 08:19	01/26/22 18:22	84-74-2	ED
4,6-Dinitro-2-methylphenol	<3890	ug/kg	13100	3890	10	01/20/22 08:19	01/26/22 18:22	534-52-1	ED,L1
2,4-Dinitrophenol	<11700	ug/kg	13100	11700	10	01/20/22 08:19	01/26/22 18:22	51-28-5	ED
2,4-Dinitrotoluene	<1590	ug/kg	5230	1590	10	01/20/22 08:19	01/26/22 18:22	121-14-2	ED
2,6-Dinitrotoluene	<1590	ug/kg	5230	1590	10	01/20/22 08:19	01/26/22 18:22	606-20-2	ED
Di-n-octylphthalate	<1190	ug/kg	5230	1190	10	01/20/22 08:19	01/26/22 18:22	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<1670	ug/kg	5230	1670	10	01/20/22 08:19	01/26/22 18:22	117-81-7	ED
Fluoranthene	4460J	ug/kg	5230	1680	10	01/20/22 08:19	01/26/22 18:22	206-44-0	ED
Fluorene	<1600	ug/kg	5230	1600	10	01/20/22 08:19	01/26/22 18:22	86-73-7	ED
Hexachloro-1,3-butadiene	<1700	ug/kg	5230	1700	10	01/20/22 08:19	01/26/22 18:22	87-68-3	ED
Hexachlorobenzene	<1500	ug/kg	5230	1500	10	01/20/22 08:19	01/26/22 18:22	118-74-1	ED
Hexachlorocyclopentadiene	<1240	ug/kg	5230	1240	10	01/20/22 08:19	01/26/22 18:22	77-47-4	ED
Hexachloroethane	<1410	ug/kg	5230	1410	10	01/20/22 08:19	01/26/22 18:22	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<1970	ug/kg	5230	1970	10	01/20/22 08:19	01/26/22 18:22	193-39-5	ED
Isophorone	<1720	ug/kg	5230	1720	10	01/20/22 08:19	01/26/22 18:22	78-59-1	ED
1-Methylnaphthalene	<1310	ug/kg	5230	1310	10	01/20/22 08:19	01/26/22 18:22	90-12-0	ED
2-Methylnaphthalene	<1570	ug/kg	5230	1570	10	01/20/22 08:19	01/26/22 18:22	91-57-6	ED
2-Methylphenol(o-Cresol)	<1880	ug/kg	5230	1880	10	01/20/22 08:19	01/26/22 18:22	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<3210	ug/kg	10500	3210	10	01/20/22 08:19	01/26/22 18:22		ED
Naphthalene	<1420	ug/kg	5230	1420	10	01/20/22 08:19	01/26/22 18:22	91-20-3	ED
2-Nitroaniline	<1820	ug/kg	13100	1820	10	01/20/22 08:19	01/26/22 18:22	88-74-4	ED
3-Nitroaniline	<3410	ug/kg	13100	3410	10	01/20/22 08:19	01/26/22 18:22	99-09-2	ED
4-Nitroaniline	<7340	ug/kg	13100	7340	10	01/20/22 08:19	01/26/22 18:22	100-01-6	ED,L1
Nitrobenzene	<1940	ug/kg	5230	1940	10	01/20/22 08:19	01/26/22 18:22	98-95-3	ED
2-Nitrophenol	<2070	ug/kg	5230	2070	10	01/20/22 08:19	01/26/22 18:22	88-75-5	ED,L1
4-Nitrophenol	<1760	ug/kg	5230	1760	10	01/20/22 08:19	01/26/22 18:22	100-02-7	ED
N-Nitrosodimethylamine	<896	ug/kg	5230	896	10	01/20/22 08:19	01/26/22 18:22	62-75-9	ED
N-Nitroso-di-n-propylamine	<2210	ug/kg	5230	2210	10	01/20/22 08:19	01/26/22 18:22	621-64-7	ED
N-Nitrosodiphenylamine	<1180	ug/kg	5230	1180	10	01/20/22 08:19	01/26/22 18:22	86-30-6	ED
Pentachlorophenol	<6880	ug/kg	13100	6880	10	01/20/22 08:19	01/26/22 18:22	87-86-5	ED
Phenanthrene	<2300	ug/kg	5230	2300	10	01/20/22 08:19	01/26/22 18:22	85-01-8	ED
Phenol	<1550	ug/kg	5230	1550	10	01/20/22 08:19	01/26/22 18:22	108-95-2	ED
Pyrene	3750J	ug/kg	5230	1910	10	01/20/22 08:19	01/26/22 18:22	129-00-0	ED
1,2,4-Trichlorobenzene	<1410	ug/kg	5230	1410	10	01/20/22 08:19	01/26/22 18:22	120-82-1	ED
2,4,5-Trichlorophenol	<1550	ug/kg	13100	1550	10	01/20/22 08:19	01/26/22 18:22	95-95-4	ED
2,4,6-Trichlorophenol	<1370	ug/kg	5230	1370	10	01/20/22 08:19	01/26/22 18:22	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	97	%	41-112		10	01/20/22 08:19	01/26/22 18:22	4165-60-0	
2-Fluorobiphenyl (S)	118	%	49-108		10	01/20/22 08:19	01/26/22 18:22	321-60-8	S4
Terphenyl-d14 (S)	107	%	43-106		10	01/20/22 08:19	01/26/22 18:22	1718-51-0	S4
Phenol-d6 (S)	113	%	44-112		10	01/20/22 08:19	01/26/22 18:22	13127-88-3	S4
2-Fluorophenol (S)	112	%	44-113		10	01/20/22 08:19	01/26/22 18:22	367-12-4	

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-05-MS**      **Lab ID: 30459395009**      Collected: 01/12/22 10:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546 Pace Analytical Services - Greensburg									
<b>Surrogates</b>									
2,4,6-Tribromophenol (S)	77	%	31-133		10	01/20/22 08:19	01/26/22 18:22	118-79-6	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg									
Percent Moisture	<b>36.8</b>	%	0.10	0.10	1		01/18/22 10:57		

**Sample: SB-06**      **Lab ID: 30459395010**      Collected: 01/12/22 11:00      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B Pace Analytical Services - Beaver									
Arsenic	<b>8.0</b>	mg/kg	6.8	0.75	1	02/07/22 08:23	02/09/22 09:28	7440-38-2	
Barium	<b>68.9</b>	mg/kg	6.8	0.78	1	02/07/22 08:23	02/09/22 09:28	7440-39-3	
Cadmium	<b>0.56J</b>	mg/kg	1.4	0.16	1	02/07/22 08:23	02/09/22 09:28	7440-43-9	
Chromium	<b>16.9</b>	mg/kg	6.8	0.79	1	02/07/22 08:23	02/09/22 09:28	7440-47-3	
Lead	<b>55.3</b>	mg/kg	6.8	0.66	1	02/07/22 08:23	02/09/22 09:28	7439-92-1	
Selenium	<b>2.2J</b>	mg/kg	6.8	1.4	1	02/07/22 08:23	02/09/22 09:28	7782-49-2	
Silver	<b>14.6</b>	mg/kg	3.4	0.58	1	02/07/22 08:23	02/09/22 09:28	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B Pace Analytical Services - Beaver									
Mercury	<b>0.20</b>	mg/kg	0.14	0.013	1	02/08/22 14:53	02/14/22 14:46	7439-97-6	H1
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546 Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<b>&lt;69.7</b>	ug/kg	113	69.7	5	02/25/22 08:15	02/28/22 15:10	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<b>&lt;100</b>	ug/kg	113	100	5	02/25/22 08:15	02/28/22 15:10	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<b>&lt;103</b>	ug/kg	113	103	5	02/25/22 08:15	02/28/22 15:10	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<b>&lt;82.5</b>	ug/kg	113	82.5	5	02/25/22 08:15	02/28/22 15:10	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<b>&lt;64.9</b>	ug/kg	113	64.9	5	02/25/22 08:15	02/28/22 15:10	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<b>&lt;60.2</b>	ug/kg	113	60.2	5	02/25/22 08:15	02/28/22 15:10	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<b>&lt;64.3</b>	ug/kg	113	64.3	5	02/25/22 08:15	02/28/22 15:10	11096-82-5	ED
PCB, Total	<b>&lt;42.6</b>	ug/kg	113	42.6	5	02/25/22 08:15	02/28/22 15:10	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	79	%	46-120		5	02/25/22 08:15	02/28/22 15:10	877-09-8	
Decachlorobiphenyl (S)	109	%	41-148		5	02/25/22 08:15	02/28/22 15:10	2051-24-3	CH

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Sample: **SB-06** Lab ID: **30459395010** Collected: 01/12/22 11:00 Received: 01/13/22 14:30 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<152	ug/kg	447	152	1	01/20/22 08:19	01/26/22 18:44	83-32-9	
Acenaphthylene	<134	ug/kg	447	134	1	01/20/22 08:19	01/26/22 18:44	208-96-8	
Anthracene	<103	ug/kg	447	103	1	01/20/22 08:19	01/26/22 18:44	120-12-7	
Azobenzene	<158	ug/kg	447	158	1	01/20/22 08:19	01/26/22 18:44	103-33-3	
Benzo(a)anthracene	<201	ug/kg	447	201	1	01/20/22 08:19	01/26/22 18:44	56-55-3	
Benzo(a)pyrene	174J	ug/kg	447	139	1	01/20/22 08:19	01/26/22 18:44	50-32-8	
Benzo(b)fluoranthene	407J	ug/kg	447	136	1	01/20/22 08:19	01/26/22 18:44	205-99-2	lp
Benzo(g,h,i)perylene	<155	ug/kg	447	155	1	01/20/22 08:19	01/26/22 18:44	191-24-2	
Benzo(k)fluoranthene	339J	ug/kg	447	198	1	01/20/22 08:19	01/26/22 18:44	207-08-9	lp
Benzoic acid	<2270	ug/kg	6710	2270	1	01/20/22 08:19	01/26/22 18:44	65-85-0	L1
Benzyl alcohol	<395	ug/kg	447	395	1	01/20/22 08:19	01/26/22 18:44	100-51-6	
4-Bromophenylphenyl ether	<164	ug/kg	447	164	1	01/20/22 08:19	01/26/22 18:44	101-55-3	
Butylbenzylphthalate	<126	ug/kg	447	126	1	01/20/22 08:19	01/26/22 18:44	85-68-7	
Carbazole	<176	ug/kg	447	176	1	01/20/22 08:19	01/26/22 18:44	86-74-8	
4-Chloro-3-methylphenol	<72.0	ug/kg	447	72.0	1	01/20/22 08:19	01/26/22 18:44	59-50-7	
4-Chloroaniline	<78.7	ug/kg	447	78.7	1	01/20/22 08:19	01/26/22 18:44	106-47-8	
bis(2-Chloroethoxy)methane	<177	ug/kg	447	177	1	01/20/22 08:19	01/26/22 18:44	111-91-1	
bis(2-Chloroethyl) ether	<81.6	ug/kg	447	81.6	1	01/20/22 08:19	01/26/22 18:44	111-44-4	
bis(2-Chloroisopropyl) ether	<379	ug/kg	447	379	1	01/20/22 08:19	01/26/22 18:44	108-60-1	
2-Chloronaphthalene	<128	ug/kg	447	128	1	01/20/22 08:19	01/26/22 18:44	91-58-7	
2-Chlorophenol	<139	ug/kg	447	139	1	01/20/22 08:19	01/26/22 18:44	95-57-8	
4-Chlorophenylphenyl ether	<129	ug/kg	447	129	1	01/20/22 08:19	01/26/22 18:44	7005-72-3	
Chrysene	267J	ug/kg	447	165	1	01/20/22 08:19	01/26/22 18:44	218-01-9	
Dibenz(a,h)anthracene	<170	ug/kg	447	170	1	01/20/22 08:19	01/26/22 18:44	53-70-3	
Dibenzofuran	<143	ug/kg	447	143	1	01/20/22 08:19	01/26/22 18:44	132-64-9	
1,2-Dichlorobenzene	<140	ug/kg	447	140	1	01/20/22 08:19	01/26/22 18:44	95-50-1	
1,3-Dichlorobenzene	<132	ug/kg	447	132	1	01/20/22 08:19	01/26/22 18:44	541-73-1	
1,4-Dichlorobenzene	<61.8	ug/kg	447	61.8	1	01/20/22 08:19	01/26/22 18:44	106-46-7	
3,3'-Dichlorobenzidine	<131	ug/kg	447	131	1	01/20/22 08:19	01/26/22 18:44	91-94-1	
2,4-Dichlorophenol	<201	ug/kg	447	201	1	01/20/22 08:19	01/26/22 18:44	120-83-2	
Diethylphthalate	<158	ug/kg	447	158	1	01/20/22 08:19	01/26/22 18:44	84-66-2	
2,4-Dimethylphenol	<136	ug/kg	447	136	1	01/20/22 08:19	01/26/22 18:44	105-67-9	
Dimethylphthalate	<138	ug/kg	447	138	1	01/20/22 08:19	01/26/22 18:44	131-11-3	
Di-n-butylphthalate	<151	ug/kg	447	151	1	01/20/22 08:19	01/26/22 18:44	84-74-2	
4,6-Dinitro-2-methylphenol	<333	ug/kg	1120	333	1	01/20/22 08:19	01/26/22 18:44	534-52-1	L1
2,4-Dinitrophenol	<1010	ug/kg	1120	1010	1	01/20/22 08:19	01/26/22 18:44	51-28-5	
2,4-Dinitrotoluene	<136	ug/kg	447	136	1	01/20/22 08:19	01/26/22 18:44	121-14-2	
2,6-Dinitrotoluene	<136	ug/kg	447	136	1	01/20/22 08:19	01/26/22 18:44	606-20-2	
Di-n-octylphthalate	<102	ug/kg	447	102	1	01/20/22 08:19	01/26/22 18:44	117-84-0	
bis(2-Ethylhexyl)phthalate	<143	ug/kg	447	143	1	01/20/22 08:19	01/26/22 18:44	117-81-7	
Fluoranthene	420J	ug/kg	447	144	1	01/20/22 08:19	01/26/22 18:44	206-44-0	
Fluorene	<137	ug/kg	447	137	1	01/20/22 08:19	01/26/22 18:44	86-73-7	
Hexachloro-1,3-butadiene	<146	ug/kg	447	146	1	01/20/22 08:19	01/26/22 18:44	87-68-3	
Hexachlorobenzene	<129	ug/kg	447	129	1	01/20/22 08:19	01/26/22 18:44	118-74-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: SB-06**      **Lab ID: 30459395010**      Collected: 01/12/22 11:00      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Hexachlorocyclopentadiene	<106	ug/kg	447	106	1	01/20/22 08:19	01/26/22 18:44	77-47-4	
Hexachloroethane	<121	ug/kg	447	121	1	01/20/22 08:19	01/26/22 18:44	67-72-1	
Indeno(1,2,3-cd)pyrene	<168	ug/kg	447	168	1	01/20/22 08:19	01/26/22 18:44	193-39-5	
Isophorone	<147	ug/kg	447	147	1	01/20/22 08:19	01/26/22 18:44	78-59-1	
1-Methylnaphthalene	161J	ug/kg	447	112	1	01/20/22 08:19	01/26/22 18:44	90-12-0	
2-Methylnaphthalene	181J	ug/kg	447	134	1	01/20/22 08:19	01/26/22 18:44	91-57-6	
2-Methylphenol(o-Cresol)	<161	ug/kg	447	161	1	01/20/22 08:19	01/26/22 18:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	<275	ug/kg	894	275	1	01/20/22 08:19	01/26/22 18:44		
Naphthalene	125J	ug/kg	447	121	1	01/20/22 08:19	01/26/22 18:44	91-20-3	
2-Nitroaniline	<155	ug/kg	1120	155	1	01/20/22 08:19	01/26/22 18:44	88-74-4	
3-Nitroaniline	<292	ug/kg	1120	292	1	01/20/22 08:19	01/26/22 18:44	99-09-2	
4-Nitroaniline	<628	ug/kg	1120	628	1	01/20/22 08:19	01/26/22 18:44	100-01-6	L1
Nitrobenzene	<166	ug/kg	447	166	1	01/20/22 08:19	01/26/22 18:44	98-95-3	
2-Nitrophenol	<178	ug/kg	447	178	1	01/20/22 08:19	01/26/22 18:44	88-75-5	L1
4-Nitrophenol	<150	ug/kg	447	150	1	01/20/22 08:19	01/26/22 18:44	100-02-7	
N-Nitrosodimethylamine	<76.7	ug/kg	447	76.7	1	01/20/22 08:19	01/26/22 18:44	62-75-9	
N-Nitroso-di-n-propylamine	<189	ug/kg	447	189	1	01/20/22 08:19	01/26/22 18:44	621-64-7	
N-Nitrosodiphenylamine	<101	ug/kg	447	101	1	01/20/22 08:19	01/26/22 18:44	86-30-6	
Pentachlorophenol	<589	ug/kg	1120	589	1	01/20/22 08:19	01/26/22 18:44	87-86-5	
Phenanthrene	293J	ug/kg	447	197	1	01/20/22 08:19	01/26/22 18:44	85-01-8	
Phenol	<133	ug/kg	447	133	1	01/20/22 08:19	01/26/22 18:44	108-95-2	
Pyrene	359J	ug/kg	447	163	1	01/20/22 08:19	01/26/22 18:44	129-00-0	
1,2,4-Trichlorobenzene	<121	ug/kg	447	121	1	01/20/22 08:19	01/26/22 18:44	120-82-1	
2,4,5-Trichlorophenol	<132	ug/kg	1120	132	1	01/20/22 08:19	01/26/22 18:44	95-95-4	
2,4,6-Trichlorophenol	<117	ug/kg	447	117	1	01/20/22 08:19	01/26/22 18:44	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	108	%	41-112		1	01/20/22 08:19	01/26/22 18:44	4165-60-0	
2-Fluorobiphenyl (S)	109	%	49-108		1	01/20/22 08:19	01/26/22 18:44	321-60-8	ST
Terphenyl-d14 (S)	113	%	43-106		1	01/20/22 08:19	01/26/22 18:44	1718-51-0	ST
Phenol-d6 (S)	106	%	44-112		1	01/20/22 08:19	01/26/22 18:44	13127-88-3	
2-Fluorophenol (S)	105	%	44-113		1	01/20/22 08:19	01/26/22 18:44	367-12-4	
2,4,6-Tribromophenol (S)	107	%	31-133		1	01/20/22 08:19	01/26/22 18:44	118-79-6	

**Percent Moisture**

Analytical Method: ASTM D2974-87  
Pace Analytical Services - Greensburg

Percent Moisture	26.6	%	0.10	0.10	1		01/18/22 10:57		
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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-03 (0-2)**      **Lab ID: 30459395011**      Collected: 01/11/22 10:55      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	6.8	mg/kg	5.9	0.65	1	02/08/22 06:03	02/09/22 10:26	7440-38-2	
Barium	95.9	mg/kg	5.9	0.67	1	02/08/22 06:03	02/09/22 10:26	7440-39-3	
Cadmium	0.25J	mg/kg	1.2	0.14	1	02/08/22 06:03	02/09/22 10:26	7440-43-9	
Chromium	12.5	mg/kg	5.9	0.68	1	02/08/22 06:03	02/09/22 10:26	7440-47-3	
Lead	35.4	mg/kg	5.9	0.57	1	02/08/22 06:03	02/09/22 10:26	7439-92-1	
Selenium	2.1J	mg/kg	5.9	1.2	1	02/08/22 06:03	02/09/22 10:26	7782-49-2	
Silver	10	mg/kg	2.9	0.50	1	02/08/22 06:03	02/09/22 10:26	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	0.10J	mg/kg	0.11	0.011	1	02/08/22 14:53	02/14/22 15:13	7439-97-6	H1
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<114	ug/kg	184	114	10	02/25/22 08:15	02/28/22 15:27	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<163	ug/kg	184	163	10	02/25/22 08:15	02/28/22 15:27	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<168	ug/kg	184	168	10	02/25/22 08:15	02/28/22 15:27	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<135	ug/kg	184	135	10	02/25/22 08:15	02/28/22 15:27	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<106	ug/kg	184	106	10	02/25/22 08:15	02/28/22 15:27	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<98.2	ug/kg	184	98.2	10	02/25/22 08:15	02/28/22 15:27	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<105	ug/kg	184	105	10	02/25/22 08:15	02/28/22 15:27	11096-82-5	ED
PCB, Total	<69.5	ug/kg	184	69.5	10	02/25/22 08:15	02/28/22 15:27	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	79	%	46-120		10	02/25/22 08:15	02/28/22 15:27	877-09-8	
Decachlorobiphenyl (S)	127	%	41-148		10	02/25/22 08:15	02/28/22 15:27	2051-24-3	CH
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<1280	ug/kg	3760	1280	10	01/20/22 08:19	01/20/22 21:31	83-32-9	ED
Acenaphthylene	<1130	ug/kg	3760	1130	10	01/20/22 08:19	01/20/22 21:31	208-96-8	ED
Anthracene	<863	ug/kg	3760	863	10	01/20/22 08:19	01/20/22 21:31	120-12-7	ED
Azobenzene	<1330	ug/kg	3760	1330	10	01/20/22 08:19	01/20/22 21:31	103-33-3	ED
Benzo(a)anthracene	1780J	ug/kg	3760	1690	10	01/20/22 08:19	01/20/22 21:31	56-55-3	ED
Benzo(a)pyrene	1480J	ug/kg	3760	1170	10	01/20/22 08:19	01/20/22 21:31	50-32-8	ED
Benzo(b)fluoranthene	3480J	ug/kg	3760	1140	10	01/20/22 08:19	01/20/22 21:31	205-99-2	ED,lp
Benzo(g,h,i)perylene	<1300	ug/kg	3760	1300	10	01/20/22 08:19	01/20/22 21:31	191-24-2	ED
Benzo(k)fluoranthene	3260J	ug/kg	3760	1660	10	01/20/22 08:19	01/20/22 21:31	207-08-9	ED,lp
Benzoic acid	<19000	ug/kg	56300	19000	10	01/20/22 08:19	01/20/22 21:31	65-85-0	CH,ED, L1
Benzyl alcohol	<3320	ug/kg	3760	3320	10	01/20/22 08:19	01/20/22 21:31	100-51-6	ED
4-Bromophenylphenyl ether	<1380	ug/kg	3760	1380	10	01/20/22 08:19	01/20/22 21:31	101-55-3	ED
Butylbenzylphthalate	<1060	ug/kg	3760	1060	10	01/20/22 08:19	01/20/22 21:31	85-68-7	ED
Carbazole	<1480	ug/kg	3760	1480	10	01/20/22 08:19	01/20/22 21:31	86-74-8	ED
4-Chloro-3-methylphenol	<605	ug/kg	3760	605	10	01/20/22 08:19	01/20/22 21:31	59-50-7	ED

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-03 (0-2)**      **Lab ID: 30459395011**      Collected: 01/11/22 10:55      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
4-Chloroaniline	<661	ug/kg	3760	661	10	01/20/22 08:19	01/20/22 21:31	106-47-8	ED
bis(2-Chloroethoxy)methane	<1490	ug/kg	3760	1490	10	01/20/22 08:19	01/20/22 21:31	111-91-1	ED
bis(2-Chloroethyl) ether	<686	ug/kg	3760	686	10	01/20/22 08:19	01/20/22 21:31	111-44-4	ED
bis(2-Chloroisopropyl) ether	<3190	ug/kg	3760	3190	10	01/20/22 08:19	01/20/22 21:31	108-60-1	ED
2-Chloronaphthalene	<1070	ug/kg	3760	1070	10	01/20/22 08:19	01/20/22 21:31	91-58-7	ED
2-Chlorophenol	<1170	ug/kg	3760	1170	10	01/20/22 08:19	01/20/22 21:31	95-57-8	ED
4-Chlorophenylphenyl ether	<1090	ug/kg	3760	1090	10	01/20/22 08:19	01/20/22 21:31	7005-72-3	ED
Chrysene	2120J	ug/kg	3760	1390	10	01/20/22 08:19	01/20/22 21:31	218-01-9	ED
Dibenz(a,h)anthracene	<1430	ug/kg	3760	1430	10	01/20/22 08:19	01/20/22 21:31	53-70-3	ED
Dibenzofuran	2470J	ug/kg	3760	1200	10	01/20/22 08:19	01/20/22 21:31	132-64-9	ED
1,2-Dichlorobenzene	<1170	ug/kg	3760	1170	10	01/20/22 08:19	01/20/22 21:31	95-50-1	ED
1,3-Dichlorobenzene	<1110	ug/kg	3760	1110	10	01/20/22 08:19	01/20/22 21:31	541-73-1	ED
1,4-Dichlorobenzene	<519	ug/kg	3760	519	10	01/20/22 08:19	01/20/22 21:31	106-46-7	ED
3,3'-Dichlorobenzidine	<1100	ug/kg	3760	1100	10	01/20/22 08:19	01/20/22 21:31	91-94-1	ED
2,4-Dichlorophenol	<1690	ug/kg	3760	1690	10	01/20/22 08:19	01/20/22 21:31	120-83-2	ED
Diethylphthalate	<1320	ug/kg	3760	1320	10	01/20/22 08:19	01/20/22 21:31	84-66-2	ED
2,4-Dimethylphenol	<1140	ug/kg	3760	1140	10	01/20/22 08:19	01/20/22 21:31	105-67-9	ED
Dimethylphthalate	<1160	ug/kg	3760	1160	10	01/20/22 08:19	01/20/22 21:31	131-11-3	ED
Di-n-butylphthalate	<1270	ug/kg	3760	1270	10	01/20/22 08:19	01/20/22 21:31	84-74-2	ED
4,6-Dinitro-2-methylphenol	<2800	ug/kg	9400	2800	10	01/20/22 08:19	01/20/22 21:31	534-52-1	ED, L1
2,4-Dinitrophenol	<8450	ug/kg	9400	8450	10	01/20/22 08:19	01/20/22 21:31	51-28-5	CH,ED
2,4-Dinitrotoluene	<1140	ug/kg	3760	1140	10	01/20/22 08:19	01/20/22 21:31	121-14-2	ED
2,6-Dinitrotoluene	<1140	ug/kg	3760	1140	10	01/20/22 08:19	01/20/22 21:31	606-20-2	ED
Di-n-octylphthalate	<853	ug/kg	3760	853	10	01/20/22 08:19	01/20/22 21:31	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<1200	ug/kg	3760	1200	10	01/20/22 08:19	01/20/22 21:31	117-81-7	ED
Fluoranthene	2960J	ug/kg	3760	1210	10	01/20/22 08:19	01/20/22 21:31	206-44-0	ED
Fluorene	<1150	ug/kg	3760	1150	10	01/20/22 08:19	01/20/22 21:31	86-73-7	ED
Hexachloro-1,3-butadiene	<1220	ug/kg	3760	1220	10	01/20/22 08:19	01/20/22 21:31	87-68-3	ED
Hexachlorobenzene	<1080	ug/kg	3760	1080	10	01/20/22 08:19	01/20/22 21:31	118-74-1	ED
Hexachlorocyclopentadiene	<889	ug/kg	3760	889	10	01/20/22 08:19	01/20/22 21:31	77-47-4	ED
Hexachloroethane	<1010	ug/kg	3760	1010	10	01/20/22 08:19	01/20/22 21:31	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<1410	ug/kg	3760	1410	10	01/20/22 08:19	01/20/22 21:31	193-39-5	ED
Isophorone	<1240	ug/kg	3760	1240	10	01/20/22 08:19	01/20/22 21:31	78-59-1	ED
1-Methylnaphthalene	8300	ug/kg	3760	944	10	01/20/22 08:19	01/20/22 21:31	90-12-0	ED
2-Methylnaphthalene	9940	ug/kg	3760	1130	10	01/20/22 08:19	01/20/22 21:31	91-57-6	ED
2-Methylphenol(o-Cresol)	<1350	ug/kg	3760	1350	10	01/20/22 08:19	01/20/22 21:31	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<2310	ug/kg	7510	2310	10	01/20/22 08:19	01/20/22 21:31		ED
Naphthalene	7450	ug/kg	3760	1020	10	01/20/22 08:19	01/20/22 21:31	91-20-3	ED
2-Nitroaniline	<1310	ug/kg	9400	1310	10	01/20/22 08:19	01/20/22 21:31	88-74-4	ED
3-Nitroaniline	<2450	ug/kg	9400	2450	10	01/20/22 08:19	01/20/22 21:31	99-09-2	ED
4-Nitroaniline	<5270	ug/kg	9400	5270	10	01/20/22 08:19	01/20/22 21:31	100-01-6	CH,ED, L1
Nitrobenzene	<1390	ug/kg	3760	1390	10	01/20/22 08:19	01/20/22 21:31	98-95-3	ED
2-Nitrophenol	<1490	ug/kg	3760	1490	10	01/20/22 08:19	01/20/22 21:31	88-75-5	ED, L1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-03 (0-2)**      **Lab ID: 30459395011**      Collected: 01/11/22 10:55      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
4-Nitrophenol	<1260	ug/kg	3760	1260	10	01/20/22 08:19	01/20/22 21:31	100-02-7	CH,ED
N-Nitrosodimethylamine	<644	ug/kg	3760	644	10	01/20/22 08:19	01/20/22 21:31	62-75-9	ED
N-Nitroso-di-n-propylamine	<1590	ug/kg	3760	1590	10	01/20/22 08:19	01/20/22 21:31	621-64-7	ED
N-Nitrosodiphenylamine	<847	ug/kg	3760	847	10	01/20/22 08:19	01/20/22 21:31	86-30-6	ED
Pentachlorophenol	<4950	ug/kg	9400	4950	10	01/20/22 08:19	01/20/22 21:31	87-86-5	ED
Phenanthrene	4160	ug/kg	3760	1650	10	01/20/22 08:19	01/20/22 21:31	85-01-8	ED
Phenol	<1110	ug/kg	3760	1110	10	01/20/22 08:19	01/20/22 21:31	108-95-2	ED
Pyrene	2650J	ug/kg	3760	1370	10	01/20/22 08:19	01/20/22 21:31	129-00-0	ED
1,2,4-Trichlorobenzene	<1020	ug/kg	3760	1020	10	01/20/22 08:19	01/20/22 21:31	120-82-1	ED
2,4,5-Trichlorophenol	<1110	ug/kg	9400	1110	10	01/20/22 08:19	01/20/22 21:31	95-95-4	ED
2,4,6-Trichlorophenol	<981	ug/kg	3760	981	10	01/20/22 08:19	01/20/22 21:31	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	109	%	41-112		10	01/20/22 08:19	01/20/22 21:31	4165-60-0	
2-Fluorobiphenyl (S)	113	%	49-108		10	01/20/22 08:19	01/20/22 21:31	321-60-8	ST
Terphenyl-d14 (S)	111	%	43-106		10	01/20/22 08:19	01/20/22 21:31	1718-51-0	ST
Phenol-d6 (S)	111	%	44-112		10	01/20/22 08:19	01/20/22 21:31	13127-88-3	
2-Fluorophenol (S)	114	%	44-113		10	01/20/22 08:19	01/20/22 21:31	367-12-4	ST
2,4,6-Tribromophenol (S)	94	%	31-133		10	01/20/22 08:19	01/20/22 21:31	118-79-6	

**Percent Moisture**

Analytical Method: ASTM D2974-87  
Pace Analytical Services - Greensburg

Percent Moisture	12.1	%	0.10	0.10	1		01/18/22 10:57		
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**Sample: SB-03 (10-12)**      **Lab ID: 30459395012**      Collected: 01/11/22 11:25      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	5.5J	mg/kg	6.1	0.67	1	02/08/22 06:03	02/09/22 10:28	7440-38-2	
Barium	67.9	mg/kg	6.1	0.69	1	02/08/22 06:03	02/09/22 10:28	7440-39-3	
Cadmium	<0.15	mg/kg	1.2	0.15	1	02/08/22 06:03	02/09/22 10:28	7440-43-9	
Chromium	10.7	mg/kg	6.1	0.71	1	02/08/22 06:03	02/09/22 10:28	7440-47-3	
Lead	10.0	mg/kg	6.1	0.59	1	02/08/22 06:03	02/09/22 10:28	7439-92-1	
Selenium	<1.3	mg/kg	6.1	1.3	1	02/08/22 06:03	02/09/22 10:28	7782-49-2	
Silver	6.3	mg/kg	3.0	0.51	1	02/08/22 06:03	02/09/22 10:28	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	0.12	mg/kg	0.11	0.011	1	02/08/22 14:53	02/14/22 14:52	7439-97-6	H1

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-03 (10-12)**      **Lab ID: 30459395012**      Collected: 01/11/22 11:25      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<59.4	ug/kg	96.3	59.4	5	02/25/22 08:15	02/28/22 15:44	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<85.3	ug/kg	96.3	85.3	5	02/25/22 08:15	02/28/22 15:44	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<87.6	ug/kg	96.3	87.6	5	02/25/22 08:15	02/28/22 15:44	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<70.3	ug/kg	96.3	70.3	5	02/25/22 08:15	02/28/22 15:44	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<55.3	ug/kg	96.3	55.3	5	02/25/22 08:15	02/28/22 15:44	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<51.3	ug/kg	96.3	51.3	5	02/25/22 08:15	02/28/22 15:44	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<54.8	ug/kg	96.3	54.8	5	02/25/22 08:15	02/28/22 15:44	11096-82-5	ED
PCB, Total	<36.3	ug/kg	96.3	36.3	5	02/25/22 08:15	02/28/22 15:44	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	74	%	46-120		5	02/25/22 08:15	02/28/22 15:44	877-09-8	
Decachlorobiphenyl (S)	112	%	41-148		5	02/25/22 08:15	02/28/22 15:44	2051-24-3	CH
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<1330	ug/kg	3910	1330	10	01/20/22 08:19	01/20/22 21:53	83-32-9	ED
Acenaphthylene	<1180	ug/kg	3910	1180	10	01/20/22 08:19	01/20/22 21:53	208-96-8	ED
Anthracene	<899	ug/kg	3910	899	10	01/20/22 08:19	01/20/22 21:53	120-12-7	ED
Azobenzene	<1380	ug/kg	3910	1380	10	01/20/22 08:19	01/20/22 21:53	103-33-3	ED
Benzo(a)anthracene	<1760	ug/kg	3910	1760	10	01/20/22 08:19	01/20/22 21:53	56-55-3	ED
Benzo(a)pyrene	<1220	ug/kg	3910	1220	10	01/20/22 08:19	01/20/22 21:53	50-32-8	ED
Benzo(b)fluoranthene	<1190	ug/kg	3910	1190	10	01/20/22 08:19	01/20/22 21:53	205-99-2	ED,lp
Benzo(g,h,i)perylene	<1360	ug/kg	3910	1360	10	01/20/22 08:19	01/20/22 21:53	191-24-2	ED
Benzo(k)fluoranthene	<1730	ug/kg	3910	1730	10	01/20/22 08:19	01/20/22 21:53	207-08-9	ED,lp
Benzoic acid	<19800	ug/kg	58700	19800	10	01/20/22 08:19	01/20/22 21:53	65-85-0	CH,ED, L1
Benzyl alcohol	<3460	ug/kg	3910	3460	10	01/20/22 08:19	01/20/22 21:53	100-51-6	ED
4-Bromophenylphenyl ether	<1440	ug/kg	3910	1440	10	01/20/22 08:19	01/20/22 21:53	101-55-3	ED
Butylbenzylphthalate	<1100	ug/kg	3910	1100	10	01/20/22 08:19	01/20/22 21:53	85-68-7	ED
Carbazole	<1540	ug/kg	3910	1540	10	01/20/22 08:19	01/20/22 21:53	86-74-8	ED
4-Chloro-3-methylphenol	<630	ug/kg	3910	630	10	01/20/22 08:19	01/20/22 21:53	59-50-7	ED
4-Chloroaniline	<689	ug/kg	3910	689	10	01/20/22 08:19	01/20/22 21:53	106-47-8	ED
bis(2-Chloroethoxy)methane	<1550	ug/kg	3910	1550	10	01/20/22 08:19	01/20/22 21:53	111-91-1	ED
bis(2-Chloroethyl) ether	<714	ug/kg	3910	714	10	01/20/22 08:19	01/20/22 21:53	111-44-4	ED
bis(2-Chloroisopropyl) ether	<3320	ug/kg	3910	3320	10	01/20/22 08:19	01/20/22 21:53	108-60-1	ED
2-Chloronaphthalene	<1120	ug/kg	3910	1120	10	01/20/22 08:19	01/20/22 21:53	91-58-7	ED
2-Chlorophenol	<1220	ug/kg	3910	1220	10	01/20/22 08:19	01/20/22 21:53	95-57-8	ED
4-Chlorophenylphenyl ether	<1130	ug/kg	3910	1130	10	01/20/22 08:19	01/20/22 21:53	7005-72-3	ED
Chrysene	<1450	ug/kg	3910	1450	10	01/20/22 08:19	01/20/22 21:53	218-01-9	ED
Dibenz(a,h)anthracene	<1490	ug/kg	3910	1490	10	01/20/22 08:19	01/20/22 21:53	53-70-3	ED
Dibenzofuran	1950J	ug/kg	3910	1250	10	01/20/22 08:19	01/20/22 21:53	132-64-9	ED
1,2-Dichlorobenzene	<1220	ug/kg	3910	1220	10	01/20/22 08:19	01/20/22 21:53	95-50-1	ED
1,3-Dichlorobenzene	<1160	ug/kg	3910	1160	10	01/20/22 08:19	01/20/22 21:53	541-73-1	ED
1,4-Dichlorobenzene	<541	ug/kg	3910	541	10	01/20/22 08:19	01/20/22 21:53	106-46-7	ED
3,3'-Dichlorobenzidine	<1150	ug/kg	3910	1150	10	01/20/22 08:19	01/20/22 21:53	91-94-1	ED

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-03 (10-12)**      **Lab ID: 30459395012**      Collected: 01/11/22 11:25      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
2,4-Dichlorophenol	<1760	ug/kg	3910	1760	10	01/20/22 08:19	01/20/22 21:53	120-83-2	ED
Diethylphthalate	<1380	ug/kg	3910	1380	10	01/20/22 08:19	01/20/22 21:53	84-66-2	ED
2,4-Dimethylphenol	<1190	ug/kg	3910	1190	10	01/20/22 08:19	01/20/22 21:53	105-67-9	ED
Dimethylphthalate	<1210	ug/kg	3910	1210	10	01/20/22 08:19	01/20/22 21:53	131-11-3	ED
Di-n-butylphthalate	<1320	ug/kg	3910	1320	10	01/20/22 08:19	01/20/22 21:53	84-74-2	ED
4,6-Dinitro-2-methylphenol	<2920	ug/kg	9790	2920	10	01/20/22 08:19	01/20/22 21:53	534-52-1	ED,L1
2,4-Dinitrophenol	<8800	ug/kg	9790	8800	10	01/20/22 08:19	01/20/22 21:53	51-28-5	CH,ED
2,4-Dinitrotoluene	<1190	ug/kg	3910	1190	10	01/20/22 08:19	01/20/22 21:53	121-14-2	ED
2,6-Dinitrotoluene	<1190	ug/kg	3910	1190	10	01/20/22 08:19	01/20/22 21:53	606-20-2	ED
Di-n-octylphthalate	<888	ug/kg	3910	888	10	01/20/22 08:19	01/20/22 21:53	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<1250	ug/kg	3910	1250	10	01/20/22 08:19	01/20/22 21:53	117-81-7	ED
Fluoranthene	<1260	ug/kg	3910	1260	10	01/20/22 08:19	01/20/22 21:53	206-44-0	ED
Fluorene	<1200	ug/kg	3910	1200	10	01/20/22 08:19	01/20/22 21:53	86-73-7	ED
Hexachloro-1,3-butadiene	<1270	ug/kg	3910	1270	10	01/20/22 08:19	01/20/22 21:53	87-68-3	ED
Hexachlorobenzene	<1120	ug/kg	3910	1120	10	01/20/22 08:19	01/20/22 21:53	118-74-1	ED
Hexachlorocyclopentadiene	<926	ug/kg	3910	926	10	01/20/22 08:19	01/20/22 21:53	77-47-4	ED
Hexachloroethane	<1060	ug/kg	3910	1060	10	01/20/22 08:19	01/20/22 21:53	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<1470	ug/kg	3910	1470	10	01/20/22 08:19	01/20/22 21:53	193-39-5	ED
Isophorone	<1290	ug/kg	3910	1290	10	01/20/22 08:19	01/20/22 21:53	78-59-1	ED
1-Methylnaphthalene	5760	ug/kg	3910	984	10	01/20/22 08:19	01/20/22 21:53	90-12-0	ED
2-Methylnaphthalene	7440	ug/kg	3910	1180	10	01/20/22 08:19	01/20/22 21:53	91-57-6	ED
2-Methylphenol(o-Cresol)	<1410	ug/kg	3910	1410	10	01/20/22 08:19	01/20/22 21:53	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<2400	ug/kg	7830	2400	10	01/20/22 08:19	01/20/22 21:53		ED
Naphthalene	5190	ug/kg	3910	1060	10	01/20/22 08:19	01/20/22 21:53	91-20-3	ED
2-Nitroaniline	<1360	ug/kg	9790	1360	10	01/20/22 08:19	01/20/22 21:53	88-74-4	ED
3-Nitroaniline	<2550	ug/kg	9790	2550	10	01/20/22 08:19	01/20/22 21:53	99-09-2	ED
4-Nitroaniline	<5490	ug/kg	9790	5490	10	01/20/22 08:19	01/20/22 21:53	100-01-6	CH,ED, L1
Nitrobenzene	<1450	ug/kg	3910	1450	10	01/20/22 08:19	01/20/22 21:53	98-95-3	ED
2-Nitrophenol	<1550	ug/kg	3910	1550	10	01/20/22 08:19	01/20/22 21:53	88-75-5	ED,L1
4-Nitrophenol	<1320	ug/kg	3910	1320	10	01/20/22 08:19	01/20/22 21:53	100-02-7	CH,ED
N-Nitrosodimethylamine	<671	ug/kg	3910	671	10	01/20/22 08:19	01/20/22 21:53	62-75-9	ED
N-Nitroso-di-n-propylamine	<1660	ug/kg	3910	1660	10	01/20/22 08:19	01/20/22 21:53	621-64-7	ED
N-Nitrosodiphenylamine	<882	ug/kg	3910	882	10	01/20/22 08:19	01/20/22 21:53	86-30-6	ED
Pentachlorophenol	<5150	ug/kg	9790	5150	10	01/20/22 08:19	01/20/22 21:53	87-86-5	ED
Phenanthrene	2920J	ug/kg	3910	1720	10	01/20/22 08:19	01/20/22 21:53	85-01-8	ED
Phenol	<1160	ug/kg	3910	1160	10	01/20/22 08:19	01/20/22 21:53	108-95-2	ED
Pyrene	<1430	ug/kg	3910	1430	10	01/20/22 08:19	01/20/22 21:53	129-00-0	ED
1,2,4-Trichlorobenzene	<1060	ug/kg	3910	1060	10	01/20/22 08:19	01/20/22 21:53	120-82-1	ED
2,4,5-Trichlorophenol	<1160	ug/kg	9790	1160	10	01/20/22 08:19	01/20/22 21:53	95-95-4	ED
2,4,6-Trichlorophenol	<1020	ug/kg	3910	1020	10	01/20/22 08:19	01/20/22 21:53	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	110	%	41-112		10	01/20/22 08:19	01/20/22 21:53	4165-60-0	
2-Fluorobiphenyl (S)	113	%	49-108		10	01/20/22 08:19	01/20/22 21:53	321-60-8	ST
Terphenyl-d14 (S)	114	%	43-106		10	01/20/22 08:19	01/20/22 21:53	1718-51-0	ST

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-03 (10-12)**      **Lab ID: 30459395012**      Collected: 01/11/22 11:25      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
<b>Surrogates</b>									
Phenol-d6 (S)	114	%	44-112		10	01/20/22 08:19	01/20/22 21:53	13127-88-3	ST
2-Fluorophenol (S)	114	%	44-113		10	01/20/22 08:19	01/20/22 21:53	367-12-4	ST
2,4,6-Tribromophenol (S)	100	%	31-133		10	01/20/22 08:19	01/20/22 21:53	118-79-6	
<b>8260C MSV 5035 Low Level</b>									
Analytical Method: EPA 8260C    Preparation Method: EPA 5035A									
Pace Analytical Services - Greensburg									
Acetone	<b>11.6J</b>	ug/kg	11.7	3.7	1	01/20/22 12:40	01/20/22 15:21	67-64-1	1c
Benzene	<b>1.5J</b>	ug/kg	5.9	1.0	1	01/20/22 12:40	01/20/22 15:21	71-43-2	1c
Bromochloromethane	< <b>1.3</b>	ug/kg	5.9	1.3	1	01/20/22 12:40	01/20/22 15:21	74-97-5	1c
Bromodichloromethane	< <b>1.3</b>	ug/kg	5.9	1.3	1	01/20/22 12:40	01/20/22 15:21	75-27-4	1c
Bromoform	< <b>0.78</b>	ug/kg	5.9	0.78	1	01/20/22 12:40	01/20/22 15:21	75-25-2	1c,L1
Bromomethane	< <b>2.2</b>	ug/kg	5.9	2.2	1	01/20/22 12:40	01/20/22 15:21	74-83-9	1c
TOTAL BTEX	< <b>7.2</b>	ug/kg	35.2	7.2	1	01/20/22 12:40	01/20/22 15:21		
2-Butanone (MEK)	< <b>1.1</b>	ug/kg	11.7	1.1	1	01/20/22 12:40	01/20/22 15:21	78-93-3	1c
Carbon disulfide	< <b>1.7</b>	ug/kg	5.9	1.7	1	01/20/22 12:40	01/20/22 15:21	75-15-0	1c
Carbon tetrachloride	< <b>2.0</b>	ug/kg	5.9	2.0	1	01/20/22 12:40	01/20/22 15:21	56-23-5	1c
Chlorobenzene	< <b>0.92</b>	ug/kg	5.9	0.92	1	01/20/22 12:40	01/20/22 15:21	108-90-7	1c
Chloroethane	< <b>2.5</b>	ug/kg	5.9	2.5	1	01/20/22 12:40	01/20/22 15:21	75-00-3	1c
Chloroform	< <b>1.8</b>	ug/kg	5.9	1.8	1	01/20/22 12:40	01/20/22 15:21	67-66-3	1c
Chloromethane	< <b>2.0</b>	ug/kg	5.9	2.0	1	01/20/22 12:40	01/20/22 15:21	74-87-3	1c
Dibromochloromethane	< <b>0.93</b>	ug/kg	5.9	0.93	1	01/20/22 12:40	01/20/22 15:21	124-48-1	1c
1,2-Dichlorobenzene	< <b>0.69</b>	ug/kg	5.9	0.69	1	01/20/22 12:40	01/20/22 15:21	95-50-1	1c
1,3-Dichlorobenzene	< <b>0.76</b>	ug/kg	5.9	0.76	1	01/20/22 12:40	01/20/22 15:21	541-73-1	1c
1,4-Dichlorobenzene	< <b>0.83</b>	ug/kg	5.9	0.83	1	01/20/22 12:40	01/20/22 15:21	106-46-7	1c
1,1-Dichloroethane	< <b>1.5</b>	ug/kg	5.9	1.5	1	01/20/22 12:40	01/20/22 15:21	75-34-3	1c
1,2-Dichloroethane	< <b>1.5</b>	ug/kg	5.9	1.5	1	01/20/22 12:40	01/20/22 15:21	107-06-2	1c
1,2-Dichloroethene (Total)	< <b>2.9</b>	ug/kg	11.7	2.9	1	01/20/22 12:40	01/20/22 15:21	540-59-0	
1,1-Dichloroethene	< <b>2.2</b>	ug/kg	5.9	2.2	1	01/20/22 12:40	01/20/22 15:21	75-35-4	1c
cis-1,2-Dichloroethene	< <b>1.4</b>	ug/kg	5.9	1.4	1	01/20/22 12:40	01/20/22 15:21	156-59-2	1c
trans-1,2-Dichloroethene	< <b>1.5</b>	ug/kg	5.9	1.5	1	01/20/22 12:40	01/20/22 15:21	156-60-5	1c
1,2-Dichloropropane	< <b>0.85</b>	ug/kg	5.9	0.85	1	01/20/22 12:40	01/20/22 15:21	78-87-5	1c
cis-1,3-Dichloropropene	< <b>0.59</b>	ug/kg	5.9	0.59	1	01/20/22 12:40	01/20/22 15:21	10061-01-5	1c
trans-1,3-Dichloropropene	< <b>1.2</b>	ug/kg	5.9	1.2	1	01/20/22 12:40	01/20/22 15:21	10061-02-6	1c
Ethylbenzene	< <b>1.3</b>	ug/kg	5.9	1.3	1	01/20/22 12:40	01/20/22 15:21	100-41-4	1c
2-Hexanone	< <b>1.2</b>	ug/kg	11.7	1.2	1	01/20/22 12:40	01/20/22 15:21	591-78-6	1c
Isopropylbenzene (Cumene)	< <b>1.4</b>	ug/kg	5.9	1.4	1	01/20/22 12:40	01/20/22 15:21	98-82-8	1c
Methylene Chloride	< <b>4.9</b>	ug/kg	5.9	4.9	1	01/20/22 12:40	01/20/22 15:21	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	< <b>1.3</b>	ug/kg	11.7	1.3	1	01/20/22 12:40	01/20/22 15:21	108-10-1	1c
Methyl-tert-butyl ether	< <b>0.79</b>	ug/kg	5.9	0.79	1	01/20/22 12:40	01/20/22 15:21	1634-04-4	1c
Naphthalene	< <b>1.1</b>	ug/kg	5.9	1.1	1	01/20/22 12:40	01/20/22 15:21	91-20-3	1c
Styrene	< <b>1.7</b>	ug/kg	5.9	1.7	1	01/20/22 12:40	01/20/22 15:21	100-42-5	1c
1,1,2,2-Tetrachloroethane	< <b>0.69</b>	ug/kg	5.9	0.69	1	01/20/22 12:40	01/20/22 15:21	79-34-5	1c
Tetrachloroethene	< <b>2.0</b>	ug/kg	5.9	2.0	1	01/20/22 12:40	01/20/22 15:21	127-18-4	1c

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: SB-03 (10-12)**      **Lab ID: 30459395012**      Collected: 01/11/22 11:25      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV 5035 Low Level</b>									
Analytical Method: EPA 8260C    Preparation Method: EPA 5035A									
Pace Analytical Services - Greensburg									
Toluene	<b>2.0J</b>	ug/kg	5.9	1.2	1	01/20/22 12:40	01/20/22 15:21	108-88-3	1c
1,2,4-Trichlorobenzene	<b>&lt;1.5</b>	ug/kg	5.9	1.5	1	01/20/22 12:40	01/20/22 15:21	120-82-1	1c
1,1,1-Trichloroethane	<b>&lt;1.8</b>	ug/kg	5.9	1.8	1	01/20/22 12:40	01/20/22 15:21	71-55-6	1c
1,1,2-Trichloroethane	<b>&lt;1.2</b>	ug/kg	5.9	1.2	1	01/20/22 12:40	01/20/22 15:21	79-00-5	1c
Trichloroethene	<b>&lt;1.7</b>	ug/kg	5.9	1.7	1	01/20/22 12:40	01/20/22 15:21	79-01-6	1c
1,2,4-Trimethylbenzene	<b>&lt;2.9</b>	ug/kg	5.9	2.9	1	01/20/22 12:40	01/20/22 15:21	95-63-6	1c
1,3,5-Trimethylbenzene	<b>&lt;2.4</b>	ug/kg	5.9	2.4	1	01/20/22 12:40	01/20/22 15:21	108-67-8	1c
Vinyl chloride	<b>&lt;2.5</b>	ug/kg	5.9	2.5	1	01/20/22 12:40	01/20/22 15:21	75-01-4	1c
Xylene (Total)	<b>&lt;3.7</b>	ug/kg	17.6	3.7	1	01/20/22 12:40	01/20/22 15:21	1330-20-7	
m&p-Xylene	<b>&lt;2.5</b>	ug/kg	11.7	2.5	1	01/20/22 12:40	01/20/22 15:21	179601-23-1	1c
o-Xylene	<b>&lt;1.3</b>	ug/kg	5.9	1.3	1	01/20/22 12:40	01/20/22 15:21	95-47-6	1c
<b>Surrogates</b>									
Toluene-d8 (S)	109	%	70-130		1	01/20/22 12:40	01/20/22 15:21	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1	01/20/22 12:40	01/20/22 15:21	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1	01/20/22 12:40	01/20/22 15:21	17060-07-0	
Dibromofluoromethane (S)	97	%	70-130		1	01/20/22 12:40	01/20/22 15:21	1868-53-7	
<b>8260C MSV SPLP</b>									
Analytical Method: EPA 8260C    Leachate Method/Date: EPA 1312; 02/24/22 11:40									
Pace Analytical Services - Greensburg									
Benzene	<b>&lt;8.7</b>	ug/L	50.0	8.7	10		02/25/22 13:53	71-43-2	H2
2-Butanone (MEK)	<b>&lt;9.1</b>	ug/L	100	9.1	10		02/25/22 13:53	78-93-3	H2
Carbon tetrachloride	<b>&lt;17.2</b>	ug/L	50.0	17.2	10		02/25/22 13:53	56-23-5	H2
Chlorobenzene	<b>&lt;7.8</b>	ug/L	50.0	7.8	10		02/25/22 13:53	108-90-7	H2
Chloroform	<b>&lt;15.0</b>	ug/L	50.0	15.0	10		02/25/22 13:53	67-66-3	H2
1,2-Dichloroethane	<b>&lt;12.9</b>	ug/L	50.0	12.9	10		02/25/22 13:53	107-06-2	H2
1,1-Dichloroethene	<b>&lt;18.6</b>	ug/L	50.0	18.6	10		02/25/22 13:53	75-35-4	H2
Tetrachloroethene	<b>&lt;17.3</b>	ug/L	50.0	17.3	10		02/25/22 13:53	127-18-4	H2
Trichloroethene	<b>&lt;14.7</b>	ug/L	50.0	14.7	10		02/25/22 13:53	79-01-6	H2
Vinyl chloride	<b>&lt;21.5</b>	ug/L	50.0	21.5	10		02/25/22 13:53	75-01-4	H2
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	112	%	70-130		10		02/25/22 13:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130		10		02/25/22 13:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		10		02/25/22 13:53	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		10		02/25/22 13:53	1868-53-7	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Greensburg									
Percent Moisture	<b>15.2</b>	%	0.10	0.10	1		01/18/22 10:57		

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-04 (0-2)**      **Lab ID: 30459395013**      Collected: 01/11/22 11:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	7.1	mg/kg	6.1	0.67	1	02/08/22 06:03	02/09/22 10:30	7440-38-2	
Barium	89.1	mg/kg	6.1	0.70	1	02/08/22 06:03	02/09/22 10:30	7440-39-3	
Cadmium	0.59J	mg/kg	1.2	0.15	1	02/08/22 06:03	02/09/22 10:30	7440-43-9	
Chromium	8.7	mg/kg	6.1	0.71	1	02/08/22 06:03	02/09/22 10:30	7440-47-3	
Lead	86.5	mg/kg	6.1	0.59	1	02/08/22 06:03	02/09/22 10:30	7439-92-1	
Selenium	2.9J	mg/kg	6.1	1.3	1	02/08/22 06:03	02/09/22 10:30	7782-49-2	
Silver	11.1	mg/kg	3.0	0.52	1	02/08/22 06:03	02/09/22 10:30	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	0.089J	mg/kg	0.12	0.011	1	02/08/22 14:53	02/14/22 14:35	7439-97-6	H1
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<123	ug/kg	200	123	10	02/25/22 08:15	02/28/22 16:01	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<177	ug/kg	200	177	10	02/25/22 08:15	02/28/22 16:01	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<182	ug/kg	200	182	10	02/25/22 08:15	02/28/22 16:01	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<146	ug/kg	200	146	10	02/25/22 08:15	02/28/22 16:01	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<115	ug/kg	200	115	10	02/25/22 08:15	02/28/22 16:01	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<107	ug/kg	200	107	10	02/25/22 08:15	02/28/22 16:01	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<114	ug/kg	200	114	10	02/25/22 08:15	02/28/22 16:01	11096-82-5	ED
PCB, Total	<75.5	ug/kg	200	75.5	10	02/25/22 08:15	02/28/22 16:01	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	62	%	46-120		10	02/25/22 08:15	02/28/22 16:01	877-09-8	
Decachlorobiphenyl (S)	102	%	41-148		10	02/25/22 08:15	02/28/22 16:01	2051-24-3	CH
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<1360	ug/kg	4010	1360	10	01/20/22 08:19	01/20/22 22:14	83-32-9	ED
Acenaphthylene	<1200	ug/kg	4010	1200	10	01/20/22 08:19	01/20/22 22:14	208-96-8	ED
Anthracene	<921	ug/kg	4010	921	10	01/20/22 08:19	01/20/22 22:14	120-12-7	ED
Azobenzene	<1410	ug/kg	4010	1410	10	01/20/22 08:19	01/20/22 22:14	103-33-3	ED
Benzo(a)anthracene	<1800	ug/kg	4010	1800	10	01/20/22 08:19	01/20/22 22:14	56-55-3	ED
Benzo(a)pyrene	<1250	ug/kg	4010	1250	10	01/20/22 08:19	01/20/22 22:14	50-32-8	ED
Benzo(b)fluoranthene	2040J	ug/kg	4010	1220	10	01/20/22 08:19	01/20/22 22:14	205-99-2	ED,lp
Benzo(g,h,i)perylene	<1390	ug/kg	4010	1390	10	01/20/22 08:19	01/20/22 22:14	191-24-2	ED
Benzo(k)fluoranthene	1910J	ug/kg	4010	1770	10	01/20/22 08:19	01/20/22 22:14	207-08-9	ED,lp
Benzoic acid	<20300	ug/kg	60100	20300	10	01/20/22 08:19	01/20/22 22:14	65-85-0	CH,ED, L1
Benzyl alcohol	<3540	ug/kg	4010	3540	10	01/20/22 08:19	01/20/22 22:14	100-51-6	ED
4-Bromophenylphenyl ether	<1470	ug/kg	4010	1470	10	01/20/22 08:19	01/20/22 22:14	101-55-3	ED
Butylbenzylphthalate	<1130	ug/kg	4010	1130	10	01/20/22 08:19	01/20/22 22:14	85-68-7	ED
Carbazole	<1570	ug/kg	4010	1570	10	01/20/22 08:19	01/20/22 22:14	86-74-8	ED
4-Chloro-3-methylphenol	<645	ug/kg	4010	645	10	01/20/22 08:19	01/20/22 22:14	59-50-7	ED

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Project No.: 30459395

**Sample: SB-04 (0-2)**      **Lab ID: 30459395013**      Collected: 01/11/22 11:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
4-Chloroaniline	<705	ug/kg	4010	705	10	01/20/22 08:19	01/20/22 22:14	106-47-8	ED
bis(2-Chloroethoxy)methane	<1590	ug/kg	4010	1590	10	01/20/22 08:19	01/20/22 22:14	111-91-1	ED
bis(2-Chloroethyl) ether	<732	ug/kg	4010	732	10	01/20/22 08:19	01/20/22 22:14	111-44-4	ED
bis(2-Chloroisopropyl) ether	<3400	ug/kg	4010	3400	10	01/20/22 08:19	01/20/22 22:14	108-60-1	ED
2-Chloronaphthalene	<1140	ug/kg	4010	1140	10	01/20/22 08:19	01/20/22 22:14	91-58-7	ED
2-Chlorophenol	<1250	ug/kg	4010	1250	10	01/20/22 08:19	01/20/22 22:14	95-57-8	ED
4-Chlorophenylphenyl ether	<1160	ug/kg	4010	1160	10	01/20/22 08:19	01/20/22 22:14	7005-72-3	ED
Chrysene	<1480	ug/kg	4010	1480	10	01/20/22 08:19	01/20/22 22:14	218-01-9	ED
Dibenz(a,h)anthracene	<1520	ug/kg	4010	1520	10	01/20/22 08:19	01/20/22 22:14	53-70-3	ED
Dibenzofuran	3120J	ug/kg	4010	1290	10	01/20/22 08:19	01/20/22 22:14	132-64-9	ED
1,2-Dichlorobenzene	<1250	ug/kg	4010	1250	10	01/20/22 08:19	01/20/22 22:14	95-50-1	ED
1,3-Dichlorobenzene	<1190	ug/kg	4010	1190	10	01/20/22 08:19	01/20/22 22:14	541-73-1	ED
1,4-Dichlorobenzene	<554	ug/kg	4010	554	10	01/20/22 08:19	01/20/22 22:14	106-46-7	ED
3,3'-Dichlorobenzidine	<1180	ug/kg	4010	1180	10	01/20/22 08:19	01/20/22 22:14	91-94-1	ED
2,4-Dichlorophenol	<1800	ug/kg	4010	1800	10	01/20/22 08:19	01/20/22 22:14	120-83-2	ED
Diethylphthalate	<1410	ug/kg	4010	1410	10	01/20/22 08:19	01/20/22 22:14	84-66-2	ED
2,4-Dimethylphenol	<1220	ug/kg	4010	1220	10	01/20/22 08:19	01/20/22 22:14	105-67-9	ED
Dimethylphthalate	<1240	ug/kg	4010	1240	10	01/20/22 08:19	01/20/22 22:14	131-11-3	ED
Di-n-butylphthalate	<1350	ug/kg	4010	1350	10	01/20/22 08:19	01/20/22 22:14	84-74-2	ED
4,6-Dinitro-2-methylphenol	<2990	ug/kg	10000	2990	10	01/20/22 08:19	01/20/22 22:14	534-52-1	ED, L1
2,4-Dinitrophenol	<9010	ug/kg	10000	9010	10	01/20/22 08:19	01/20/22 22:14	51-28-5	CH,ED
2,4-Dinitrotoluene	<1220	ug/kg	4010	1220	10	01/20/22 08:19	01/20/22 22:14	121-14-2	ED
2,6-Dinitrotoluene	<1220	ug/kg	4010	1220	10	01/20/22 08:19	01/20/22 22:14	606-20-2	ED
Di-n-octylphthalate	<910	ug/kg	4010	910	10	01/20/22 08:19	01/20/22 22:14	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<1280	ug/kg	4010	1280	10	01/20/22 08:19	01/20/22 22:14	117-81-7	ED
Fluoranthene	<1290	ug/kg	4010	1290	10	01/20/22 08:19	01/20/22 22:14	206-44-0	ED
Fluorene	<1230	ug/kg	4010	1230	10	01/20/22 08:19	01/20/22 22:14	86-73-7	ED
Hexachloro-1,3-butadiene	<1310	ug/kg	4010	1310	10	01/20/22 08:19	01/20/22 22:14	87-68-3	ED
Hexachlorobenzene	<1150	ug/kg	4010	1150	10	01/20/22 08:19	01/20/22 22:14	118-74-1	ED
Hexachlorocyclopentadiene	<948	ug/kg	4010	948	10	01/20/22 08:19	01/20/22 22:14	77-47-4	ED
Hexachloroethane	<1080	ug/kg	4010	1080	10	01/20/22 08:19	01/20/22 22:14	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<1510	ug/kg	4010	1510	10	01/20/22 08:19	01/20/22 22:14	193-39-5	ED
Isophorone	<1320	ug/kg	4010	1320	10	01/20/22 08:19	01/20/22 22:14	78-59-1	ED
1-Methylnaphthalene	10300	ug/kg	4010	1010	10	01/20/22 08:19	01/20/22 22:14	90-12-0	ED
2-Methylnaphthalene	12900	ug/kg	4010	1200	10	01/20/22 08:19	01/20/22 22:14	91-57-6	ED
2-Methylphenol(o-Cresol)	<1440	ug/kg	4010	1440	10	01/20/22 08:19	01/20/22 22:14	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<2460	ug/kg	8010	2460	10	01/20/22 08:19	01/20/22 22:14		ED
Naphthalene	9110	ug/kg	4010	1090	10	01/20/22 08:19	01/20/22 22:14	91-20-3	ED
2-Nitroaniline	<1390	ug/kg	10000	1390	10	01/20/22 08:19	01/20/22 22:14	88-74-4	ED
3-Nitroaniline	<2620	ug/kg	10000	2620	10	01/20/22 08:19	01/20/22 22:14	99-09-2	ED
4-Nitroaniline	<5630	ug/kg	10000	5630	10	01/20/22 08:19	01/20/22 22:14	100-01-6	CH,ED, L1
Nitrobenzene	<1490	ug/kg	4010	1490	10	01/20/22 08:19	01/20/22 22:14	98-95-3	ED
2-Nitrophenol	<1590	ug/kg	4010	1590	10	01/20/22 08:19	01/20/22 22:14	88-75-5	ED, L1

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-04 (0-2)**      **Lab ID: 30459395013**      Collected: 01/11/22 11:50      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
4-Nitrophenol	<1350	ug/kg	4010	1350	10	01/20/22 08:19	01/20/22 22:14	100-02-7	CH,ED
N-Nitrosodimethylamine	<687	ug/kg	4010	687	10	01/20/22 08:19	01/20/22 22:14	62-75-9	ED
N-Nitroso-di-n-propylamine	<1700	ug/kg	4010	1700	10	01/20/22 08:19	01/20/22 22:14	621-64-7	ED
N-Nitrosodiphenylamine	<904	ug/kg	4010	904	10	01/20/22 08:19	01/20/22 22:14	86-30-6	ED
Pentachlorophenol	<5280	ug/kg	10000	5280	10	01/20/22 08:19	01/20/22 22:14	87-86-5	ED
Phenanthrene	4500	ug/kg	4010	1760	10	01/20/22 08:19	01/20/22 22:14	85-01-8	ED
Phenol	<1190	ug/kg	4010	1190	10	01/20/22 08:19	01/20/22 22:14	108-95-2	ED
Pyrene	<1460	ug/kg	4010	1460	10	01/20/22 08:19	01/20/22 22:14	129-00-0	ED
1,2,4-Trichlorobenzene	<1080	ug/kg	4010	1080	10	01/20/22 08:19	01/20/22 22:14	120-82-1	ED
2,4,5-Trichlorophenol	<1190	ug/kg	10000	1190	10	01/20/22 08:19	01/20/22 22:14	95-95-4	ED
2,4,6-Trichlorophenol	<1050	ug/kg	4010	1050	10	01/20/22 08:19	01/20/22 22:14	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	77	%	41-112		10	01/20/22 08:19	01/20/22 22:14	4165-60-0	
2-Fluorobiphenyl (S)	84	%	49-108		10	01/20/22 08:19	01/20/22 22:14	321-60-8	
Terphenyl-d14 (S)	77	%	43-106		10	01/20/22 08:19	01/20/22 22:14	1718-51-0	
Phenol-d6 (S)	80	%	44-112		10	01/20/22 08:19	01/20/22 22:14	13127-88-3	
2-Fluorophenol (S)	79	%	44-113		10	01/20/22 08:19	01/20/22 22:14	367-12-4	
2,4,6-Tribromophenol (S)	69	%	31-133		10	01/20/22 08:19	01/20/22 22:14	118-79-6	

**Percent Moisture**

Analytical Method: ASTM D2974-87  
Pace Analytical Services - Greensburg

Percent Moisture	17.9	%	0.10	0.10	1		01/18/22 10:57		
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**Sample: SB-04 (12-14)**      **Lab ID: 30459395014**      Collected: 01/11/22 12:15      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	10.3	mg/kg	6.2	0.69	1	02/08/22 06:03	02/09/22 10:37	7440-38-2	
Barium	96.2	mg/kg	6.2	0.71	1	02/08/22 06:03	02/09/22 10:37	7440-39-3	
Cadmium	<0.15	mg/kg	1.2	0.15	1	02/08/22 06:03	02/09/22 10:37	7440-43-9	
Chromium	24.4	mg/kg	6.2	0.73	1	02/08/22 06:03	02/09/22 10:37	7440-47-3	
Lead	17.6	mg/kg	6.2	0.60	1	02/08/22 06:03	02/09/22 10:37	7439-92-1	
Selenium	3.9J	mg/kg	6.2	1.3	1	02/08/22 06:03	02/09/22 10:37	7782-49-2	
Silver	20.5	mg/kg	3.1	0.53	1	02/08/22 06:03	02/09/22 10:37	7440-22-4	

**BVR 7471B Mercury**

Analytical Method: EPA 7471B    Preparation Method: EPA 7471B  
Pace Analytical Services - Beaver

Mercury	0.051J	mg/kg	0.12	0.011	1	02/08/22 14:53	02/14/22 14:38	7439-97-6	H1
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-04 (12-14)**      **Lab ID: 30459395014**      Collected: 01/11/22 12:15      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<12.4	ug/kg	20.1	12.4	1	02/25/22 08:15	02/28/22 16:18	12674-11-2	
PCB-1221 (Aroclor 1221)	<17.8	ug/kg	20.1	17.8	1	02/25/22 08:15	02/28/22 16:18	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.3	ug/kg	20.1	18.3	1	02/25/22 08:15	02/28/22 16:18	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.7	ug/kg	20.1	14.7	1	02/25/22 08:15	02/28/22 16:18	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.5	ug/kg	20.1	11.5	1	02/25/22 08:15	02/28/22 16:18	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.7	ug/kg	20.1	10.7	1	02/25/22 08:15	02/28/22 16:18	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.4	ug/kg	20.1	11.4	1	02/25/22 08:15	02/28/22 16:18	11096-82-5	
PCB, Total	<7.6	ug/kg	20.1	7.6	1	02/25/22 08:15	02/28/22 16:18	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	72	%	46-120		1	02/25/22 08:15	02/28/22 16:18	877-09-8	
Decachlorobiphenyl (S)	109	%	41-148		1	02/25/22 08:15	02/28/22 16:18	2051-24-3	CH,E
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<140	ug/kg	412	140	1	01/20/22 08:19	01/20/22 22:36	83-32-9	
Acenaphthylene	<124	ug/kg	412	124	1	01/20/22 08:19	01/20/22 22:36	208-96-8	
Anthracene	<94.6	ug/kg	412	94.6	1	01/20/22 08:19	01/20/22 22:36	120-12-7	
Azobenzene	<145	ug/kg	412	145	1	01/20/22 08:19	01/20/22 22:36	103-33-3	
Benzo(a)anthracene	<185	ug/kg	412	185	1	01/20/22 08:19	01/20/22 22:36	56-55-3	
Benzo(a)pyrene	<128	ug/kg	412	128	1	01/20/22 08:19	01/20/22 22:36	50-32-8	
Benzo(b)fluoranthene	<125	ug/kg	412	125	1	01/20/22 08:19	01/20/22 22:36	205-99-2	lp
Benzo(g,h,i)perylene	<143	ug/kg	412	143	1	01/20/22 08:19	01/20/22 22:36	191-24-2	
Benzo(k)fluoranthene	<182	ug/kg	412	182	1	01/20/22 08:19	01/20/22 22:36	207-08-9	lp
Benzoic acid	<2090	ug/kg	6180	2090	1	01/20/22 08:19	01/20/22 22:36	65-85-0	CH,L1
Benzyl alcohol	<364	ug/kg	412	364	1	01/20/22 08:19	01/20/22 22:36	100-51-6	
4-Bromophenylphenyl ether	<151	ug/kg	412	151	1	01/20/22 08:19	01/20/22 22:36	101-55-3	
Butylbenzylphthalate	<116	ug/kg	412	116	1	01/20/22 08:19	01/20/22 22:36	85-68-7	
Carbazole	<162	ug/kg	412	162	1	01/20/22 08:19	01/20/22 22:36	86-74-8	
4-Chloro-3-methylphenol	<66.3	ug/kg	412	66.3	1	01/20/22 08:19	01/20/22 22:36	59-50-7	
4-Chloroaniline	<72.5	ug/kg	412	72.5	1	01/20/22 08:19	01/20/22 22:36	106-47-8	
bis(2-Chloroethoxy)methane	<163	ug/kg	412	163	1	01/20/22 08:19	01/20/22 22:36	111-91-1	
bis(2-Chloroethyl) ether	<75.2	ug/kg	412	75.2	1	01/20/22 08:19	01/20/22 22:36	111-44-4	
bis(2-Chloroisopropyl) ether	<349	ug/kg	412	349	1	01/20/22 08:19	01/20/22 22:36	108-60-1	
2-Chloronaphthalene	<118	ug/kg	412	118	1	01/20/22 08:19	01/20/22 22:36	91-58-7	
2-Chlorophenol	<128	ug/kg	412	128	1	01/20/22 08:19	01/20/22 22:36	95-57-8	
4-Chlorophenylphenyl ether	<119	ug/kg	412	119	1	01/20/22 08:19	01/20/22 22:36	7005-72-3	
Chrysene	<152	ug/kg	412	152	1	01/20/22 08:19	01/20/22 22:36	218-01-9	
Dibenz(a,h)anthracene	<157	ug/kg	412	157	1	01/20/22 08:19	01/20/22 22:36	53-70-3	
Dibenzofuran	<132	ug/kg	412	132	1	01/20/22 08:19	01/20/22 22:36	132-64-9	
1,2-Dichlorobenzene	<129	ug/kg	412	129	1	01/20/22 08:19	01/20/22 22:36	95-50-1	
1,3-Dichlorobenzene	<122	ug/kg	412	122	1	01/20/22 08:19	01/20/22 22:36	541-73-1	
1,4-Dichlorobenzene	<56.9	ug/kg	412	56.9	1	01/20/22 08:19	01/20/22 22:36	106-46-7	
3,3'-Dichlorobenzidine	<121	ug/kg	412	121	1	01/20/22 08:19	01/20/22 22:36	91-94-1	
2,4-Dichlorophenol	<185	ug/kg	412	185	1	01/20/22 08:19	01/20/22 22:36	120-83-2	

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: SB-04 (12-14)**      **Lab ID: 30459395014**      Collected: 01/11/22 12:15      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Diethylphthalate	<145	ug/kg	412	145	1	01/20/22 08:19	01/20/22 22:36	84-66-2	
2,4-Dimethylphenol	<125	ug/kg	412	125	1	01/20/22 08:19	01/20/22 22:36	105-67-9	
Dimethylphthalate	<127	ug/kg	412	127	1	01/20/22 08:19	01/20/22 22:36	131-11-3	
Di-n-butylphthalate	<139	ug/kg	412	139	1	01/20/22 08:19	01/20/22 22:36	84-74-2	
4,6-Dinitro-2-methylphenol	<307	ug/kg	1030	307	1	01/20/22 08:19	01/20/22 22:36	534-52-1	L1
2,4-Dinitrophenol	<926	ug/kg	1030	926	1	01/20/22 08:19	01/20/22 22:36	51-28-5	CH
2,4-Dinitrotoluene	<125	ug/kg	412	125	1	01/20/22 08:19	01/20/22 22:36	121-14-2	
2,6-Dinitrotoluene	<125	ug/kg	412	125	1	01/20/22 08:19	01/20/22 22:36	606-20-2	
Di-n-octylphthalate	<93.5	ug/kg	412	93.5	1	01/20/22 08:19	01/20/22 22:36	117-84-0	
bis(2-Ethylhexyl)phthalate	<131	ug/kg	412	131	1	01/20/22 08:19	01/20/22 22:36	117-81-7	
Fluoranthene	<133	ug/kg	412	133	1	01/20/22 08:19	01/20/22 22:36	206-44-0	
Fluorene	<126	ug/kg	412	126	1	01/20/22 08:19	01/20/22 22:36	86-73-7	
Hexachloro-1,3-butadiene	<134	ug/kg	412	134	1	01/20/22 08:19	01/20/22 22:36	87-68-3	
Hexachlorobenzene	<118	ug/kg	412	118	1	01/20/22 08:19	01/20/22 22:36	118-74-1	
Hexachlorocyclopentadiene	<97.5	ug/kg	412	97.5	1	01/20/22 08:19	01/20/22 22:36	77-47-4	
Hexachloroethane	<111	ug/kg	412	111	1	01/20/22 08:19	01/20/22 22:36	67-72-1	
Indeno(1,2,3-cd)pyrene	<155	ug/kg	412	155	1	01/20/22 08:19	01/20/22 22:36	193-39-5	
Isophorone	<136	ug/kg	412	136	1	01/20/22 08:19	01/20/22 22:36	78-59-1	
1-Methylnaphthalene	<104	ug/kg	412	104	1	01/20/22 08:19	01/20/22 22:36	90-12-0	
2-Methylnaphthalene	<124	ug/kg	412	124	1	01/20/22 08:19	01/20/22 22:36	91-57-6	
2-Methylphenol(o-Cresol)	<148	ug/kg	412	148	1	01/20/22 08:19	01/20/22 22:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	<253	ug/kg	824	253	1	01/20/22 08:19	01/20/22 22:36		
Naphthalene	<112	ug/kg	412	112	1	01/20/22 08:19	01/20/22 22:36	91-20-3	
2-Nitroaniline	<143	ug/kg	1030	143	1	01/20/22 08:19	01/20/22 22:36	88-74-4	
3-Nitroaniline	<269	ug/kg	1030	269	1	01/20/22 08:19	01/20/22 22:36	99-09-2	
4-Nitroaniline	<578	ug/kg	1030	578	1	01/20/22 08:19	01/20/22 22:36	100-01-6	CH,L1
Nitrobenzene	<153	ug/kg	412	153	1	01/20/22 08:19	01/20/22 22:36	98-95-3	
2-Nitrophenol	<164	ug/kg	412	164	1	01/20/22 08:19	01/20/22 22:36	88-75-5	L1
4-Nitrophenol	<139	ug/kg	412	139	1	01/20/22 08:19	01/20/22 22:36	100-02-7	CH
N-Nitrosodimethylamine	<70.6	ug/kg	412	70.6	1	01/20/22 08:19	01/20/22 22:36	62-75-9	
N-Nitroso-di-n-propylamine	<174	ug/kg	412	174	1	01/20/22 08:19	01/20/22 22:36	621-64-7	
N-Nitrosodiphenylamine	<92.9	ug/kg	412	92.9	1	01/20/22 08:19	01/20/22 22:36	86-30-6	
Pentachlorophenol	<542	ug/kg	1030	542	1	01/20/22 08:19	01/20/22 22:36	87-86-5	
Phenanthrene	<181	ug/kg	412	181	1	01/20/22 08:19	01/20/22 22:36	85-01-8	
Phenol	<122	ug/kg	412	122	1	01/20/22 08:19	01/20/22 22:36	108-95-2	
Pyrene	<151	ug/kg	412	151	1	01/20/22 08:19	01/20/22 22:36	129-00-0	
1,2,4-Trichlorobenzene	<111	ug/kg	412	111	1	01/20/22 08:19	01/20/22 22:36	120-82-1	
2,4,5-Trichlorophenol	<122	ug/kg	1030	122	1	01/20/22 08:19	01/20/22 22:36	95-95-4	
2,4,6-Trichlorophenol	<108	ug/kg	412	108	1	01/20/22 08:19	01/20/22 22:36	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	103	%	41-112		1	01/20/22 08:19	01/20/22 22:36	4165-60-0	
2-Fluorobiphenyl (S)	97	%	49-108		1	01/20/22 08:19	01/20/22 22:36	321-60-8	
Terphenyl-d14 (S)	107	%	43-106		1	01/20/22 08:19	01/20/22 22:36	1718-51-0	ST
Phenol-d6 (S)	98	%	44-112		1	01/20/22 08:19	01/20/22 22:36	13127-88-3	

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: SB-04 (12-14)**      **Lab ID: 30459395014**      Collected: 01/11/22 12:15      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
<b>Surrogates</b>									
2-Fluorophenol (S)	98	%	44-113		1	01/20/22 08:19	01/20/22 22:36	367-12-4	
2,4,6-Tribromophenol (S)	106	%	31-133		1	01/20/22 08:19	01/20/22 22:36	118-79-6	
<b>8260C MSV 5035 Low Level</b>									
Analytical Method: EPA 8260C    Preparation Method: EPA 5035A									
Pace Analytical Services - Greensburg									
Acetone	<b>54.6</b>	ug/kg	10.2	3.2	1	01/20/22 12:40	01/20/22 14:13	67-64-1	1c
Benzene	<b>&lt;0.89</b>	ug/kg	5.1	0.89	1	01/20/22 12:40	01/20/22 14:13	71-43-2	1c
Bromochloromethane	<b>&lt;1.1</b>	ug/kg	5.1	1.1	1	01/20/22 12:40	01/20/22 14:13	74-97-5	1c
Bromodichloromethane	<b>&lt;1.1</b>	ug/kg	5.1	1.1	1	01/20/22 12:40	01/20/22 14:13	75-27-4	1c
Bromoform	<b>&lt;0.67</b>	ug/kg	5.1	0.67	1	01/20/22 12:40	01/20/22 14:13	75-25-2	1c, L1
Bromomethane	<b>&lt;1.9</b>	ug/kg	5.1	1.9	1	01/20/22 12:40	01/20/22 14:13	74-83-9	1c
TOTAL BTEX	<b>&lt;6.2</b>	ug/kg	30.6	6.2	1	01/20/22 12:40	01/20/22 14:13		
2-Butanone (MEK)	<b>5.5J</b>	ug/kg	10.2	0.93	1	01/20/22 12:40	01/20/22 14:13	78-93-3	1c
Carbon disulfide	<b>&lt;1.4</b>	ug/kg	5.1	1.4	1	01/20/22 12:40	01/20/22 14:13	75-15-0	1c
Carbon tetrachloride	<b>&lt;1.8</b>	ug/kg	5.1	1.8	1	01/20/22 12:40	01/20/22 14:13	56-23-5	1c
Chlorobenzene	<b>&lt;0.79</b>	ug/kg	5.1	0.79	1	01/20/22 12:40	01/20/22 14:13	108-90-7	1c
Chloroethane	<b>&lt;2.1</b>	ug/kg	5.1	2.1	1	01/20/22 12:40	01/20/22 14:13	75-00-3	1c
Chloroform	<b>&lt;1.5</b>	ug/kg	5.1	1.5	1	01/20/22 12:40	01/20/22 14:13	67-66-3	1c
Chloromethane	<b>&lt;1.7</b>	ug/kg	5.1	1.7	1	01/20/22 12:40	01/20/22 14:13	74-87-3	1c
Dibromochloromethane	<b>&lt;0.80</b>	ug/kg	5.1	0.80	1	01/20/22 12:40	01/20/22 14:13	124-48-1	1c
1,2-Dichlorobenzene	<b>&lt;0.60</b>	ug/kg	5.1	0.60	1	01/20/22 12:40	01/20/22 14:13	95-50-1	1c
1,3-Dichlorobenzene	<b>&lt;0.66</b>	ug/kg	5.1	0.66	1	01/20/22 12:40	01/20/22 14:13	541-73-1	1c
1,4-Dichlorobenzene	<b>&lt;0.72</b>	ug/kg	5.1	0.72	1	01/20/22 12:40	01/20/22 14:13	106-46-7	1c
1,1-Dichloroethane	<b>&lt;1.3</b>	ug/kg	5.1	1.3	1	01/20/22 12:40	01/20/22 14:13	75-34-3	1c
1,2-Dichloroethane	<b>&lt;1.3</b>	ug/kg	5.1	1.3	1	01/20/22 12:40	01/20/22 14:13	107-06-2	1c
1,2-Dichloroethene (Total)	<b>&lt;2.5</b>	ug/kg	10.2	2.5	1	01/20/22 12:40	01/20/22 14:13	540-59-0	
1,1-Dichloroethene	<b>&lt;1.9</b>	ug/kg	5.1	1.9	1	01/20/22 12:40	01/20/22 14:13	75-35-4	1c
cis-1,2-Dichloroethene	<b>&lt;1.2</b>	ug/kg	5.1	1.2	1	01/20/22 12:40	01/20/22 14:13	156-59-2	1c
trans-1,2-Dichloroethene	<b>&lt;1.3</b>	ug/kg	5.1	1.3	1	01/20/22 12:40	01/20/22 14:13	156-60-5	1c
1,2-Dichloropropane	<b>&lt;0.73</b>	ug/kg	5.1	0.73	1	01/20/22 12:40	01/20/22 14:13	78-87-5	1c
cis-1,3-Dichloropropene	<b>&lt;0.51</b>	ug/kg	5.1	0.51	1	01/20/22 12:40	01/20/22 14:13	10061-01-5	1c
trans-1,3-Dichloropropene	<b>&lt;1.1</b>	ug/kg	5.1	1.1	1	01/20/22 12:40	01/20/22 14:13	10061-02-6	1c
Ethylbenzene	<b>&lt;1.1</b>	ug/kg	5.1	1.1	1	01/20/22 12:40	01/20/22 14:13	100-41-4	1c
2-Hexanone	<b>&lt;1.0</b>	ug/kg	10.2	1.0	1	01/20/22 12:40	01/20/22 14:13	591-78-6	1c
Isopropylbenzene (Cumene)	<b>&lt;1.2</b>	ug/kg	5.1	1.2	1	01/20/22 12:40	01/20/22 14:13	98-82-8	1c
Methylene Chloride	<b>&lt;4.3</b>	ug/kg	5.1	4.3	1	01/20/22 12:40	01/20/22 14:13	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	<b>&lt;1.1</b>	ug/kg	10.2	1.1	1	01/20/22 12:40	01/20/22 14:13	108-10-1	1c
Methyl-tert-butyl ether	<b>&lt;0.68</b>	ug/kg	5.1	0.68	1	01/20/22 12:40	01/20/22 14:13	1634-04-4	1c
Naphthalene	<b>&lt;0.96</b>	ug/kg	5.1	0.96	1	01/20/22 12:40	01/20/22 14:13	91-20-3	1c
Styrene	<b>&lt;1.5</b>	ug/kg	5.1	1.5	1	01/20/22 12:40	01/20/22 14:13	100-42-5	1c
1,1,2,2-Tetrachloroethane	<b>&lt;0.60</b>	ug/kg	5.1	0.60	1	01/20/22 12:40	01/20/22 14:13	79-34-5	1c
Tetrachloroethene	<b>&lt;1.8</b>	ug/kg	5.1	1.8	1	01/20/22 12:40	01/20/22 14:13	127-18-4	1c
Toluene	<b>&lt;1.0</b>	ug/kg	5.1	1.0	1	01/20/22 12:40	01/20/22 14:13	108-88-3	1c

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-04 (12-14)**      **Lab ID: 30459395014**      Collected: 01/11/22 12:15      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV 5035 Low Level</b>									
Analytical Method: EPA 8260C    Preparation Method: EPA 5035A									
Pace Analytical Services - Greensburg									
1,2,4-Trichlorobenzene	<1.3	ug/kg	5.1	1.3	1	01/20/22 12:40	01/20/22 14:13	120-82-1	1c
1,1,1-Trichloroethane	<1.5	ug/kg	5.1	1.5	1	01/20/22 12:40	01/20/22 14:13	71-55-6	1c
1,1,2-Trichloroethane	<1.0	ug/kg	5.1	1.0	1	01/20/22 12:40	01/20/22 14:13	79-00-5	1c
Trichloroethene	<1.5	ug/kg	5.1	1.5	1	01/20/22 12:40	01/20/22 14:13	79-01-6	1c
1,2,4-Trimethylbenzene	<2.5	ug/kg	5.1	2.5	1	01/20/22 12:40	01/20/22 14:13	95-63-6	1c
1,3,5-Trimethylbenzene	<2.1	ug/kg	5.1	2.1	1	01/20/22 12:40	01/20/22 14:13	108-67-8	1c
Vinyl chloride	<2.2	ug/kg	5.1	2.2	1	01/20/22 12:40	01/20/22 14:13	75-01-4	1c
Xylene (Total)	<3.2	ug/kg	15.3	3.2	1	01/20/22 12:40	01/20/22 14:13	1330-20-7	
m&p-Xylene	<2.1	ug/kg	10.2	2.1	1	01/20/22 12:40	01/20/22 14:13	179601-23-1	1c
o-Xylene	<1.1	ug/kg	5.1	1.1	1	01/20/22 12:40	01/20/22 14:13	95-47-6	1c
<b>Surrogates</b>									
Toluene-d8 (S)	108	%	70-130		1	01/20/22 12:40	01/20/22 14:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1	01/20/22 12:40	01/20/22 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1	01/20/22 12:40	01/20/22 14:13	17060-07-0	
Dibromofluoromethane (S)	98	%	70-130		1	01/20/22 12:40	01/20/22 14:13	1868-53-7	
<b>8260C MSV SPLP</b>									
Analytical Method: EPA 8260C    Leachate Method/Date: EPA 1312; 02/24/22 11:40									
Pace Analytical Services - Greensburg									
Benzene	<8.7	ug/L	50.0	8.7	10		02/25/22 15:23	71-43-2	H2
2-Butanone (MEK)	<9.1	ug/L	100	9.1	10		02/25/22 15:23	78-93-3	H2
Carbon tetrachloride	<17.2	ug/L	50.0	17.2	10		02/25/22 15:23	56-23-5	H2
Chlorobenzene	<7.8	ug/L	50.0	7.8	10		02/25/22 15:23	108-90-7	H2
Chloroform	<15.0	ug/L	50.0	15.0	10		02/25/22 15:23	67-66-3	H2
1,2-Dichloroethane	<12.9	ug/L	50.0	12.9	10		02/25/22 15:23	107-06-2	H2
1,1-Dichloroethene	<18.6	ug/L	50.0	18.6	10		02/25/22 15:23	75-35-4	H2
Tetrachloroethene	<17.3	ug/L	50.0	17.3	10		02/25/22 15:23	127-18-4	H2
Trichloroethene	<14.7	ug/L	50.0	14.7	10		02/25/22 15:23	79-01-6	H2
Vinyl chloride	<21.5	ug/L	50.0	21.5	10		02/25/22 15:23	75-01-4	H2
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%	70-130		10		02/25/22 15:23	17060-07-0	
Toluene-d8 (S)	99	%	70-130		10		02/25/22 15:23	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		10		02/25/22 15:23	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		10		02/25/22 15:23	1868-53-7	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Greensburg									
Percent Moisture	19.1	%	0.10	0.10	1		01/18/22 10:57		

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-01 (0-2)**      **Lab ID: 30459395015**      Collected: 01/11/22 12:45      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	<b>4.6J</b>	mg/kg	5.6	0.62	1	02/08/22 06:03	02/09/22 10:40	7440-38-2	
Barium	<b>69.5</b>	mg/kg	5.6	0.64	1	02/08/22 06:03	02/09/22 10:40	7440-39-3	
Cadmium	<b>0.16J</b>	mg/kg	1.1	0.13	1	02/08/22 06:03	02/09/22 10:40	7440-43-9	
Chromium	<b>15.0</b>	mg/kg	5.6	0.65	1	02/08/22 06:03	02/09/22 10:40	7440-47-3	
Lead	<b>67.9</b>	mg/kg	5.6	0.54	1	02/08/22 06:03	02/09/22 10:40	7439-92-1	
Selenium	<b>1.9J</b>	mg/kg	5.6	1.2	1	02/08/22 06:03	02/09/22 10:40	7782-49-2	
Silver	<b>7.3</b>	mg/kg	2.8	0.47	1	02/08/22 06:03	02/09/22 10:40	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	<b>0.24</b>	mg/kg	0.11	0.011	1	02/10/22 11:49	02/14/22 15:24	7439-97-6	H1,H2
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<b>&lt;56.3</b>	ug/kg	91.4	56.3	5	02/25/22 08:15	02/28/22 16:35	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<b>&lt;81.0</b>	ug/kg	91.4	81.0	5	02/25/22 08:15	02/28/22 16:35	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<b>&lt;83.1</b>	ug/kg	91.4	83.1	5	02/25/22 08:15	02/28/22 16:35	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<b>&lt;66.7</b>	ug/kg	91.4	66.7	5	02/25/22 08:15	02/28/22 16:35	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<b>&lt;52.5</b>	ug/kg	91.4	52.5	5	02/25/22 08:15	02/28/22 16:35	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<b>&lt;48.7</b>	ug/kg	91.4	48.7	5	02/25/22 08:15	02/28/22 16:35	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<b>&lt;52.0</b>	ug/kg	91.4	52.0	5	02/25/22 08:15	02/28/22 16:35	11096-82-5	ED
PCB, Total	<b>&lt;34.5</b>	ug/kg	91.4	34.5	5	02/25/22 08:15	02/28/22 16:35	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	73	%	46-120		5	02/25/22 08:15	02/28/22 16:35	877-09-8	
Decachlorobiphenyl (S)	105	%	41-148		5	02/25/22 08:15	02/28/22 16:35	2051-24-3	CH
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<b>&lt;127</b>	ug/kg	372	127	1	01/20/22 08:19	01/26/22 19:06	83-32-9	
Acenaphthylene	<b>&lt;112</b>	ug/kg	372	112	1	01/20/22 08:19	01/26/22 19:06	208-96-8	
Anthracene	<b>&lt;85.6</b>	ug/kg	372	85.6	1	01/20/22 08:19	01/26/22 19:06	120-12-7	
Azobenzene	<b>&lt;131</b>	ug/kg	372	131	1	01/20/22 08:19	01/26/22 19:06	103-33-3	
Benzo(a)anthracene	<b>179J</b>	ug/kg	372	167	1	01/20/22 08:19	01/26/22 19:06	56-55-3	
Benzo(a)pyrene	<b>167J</b>	ug/kg	372	116	1	01/20/22 08:19	01/26/22 19:06	50-32-8	
Benzo(b)fluoranthene	<b>370J</b>	ug/kg	372	113	1	01/20/22 08:19	01/26/22 19:06	205-99-2	lp
Benzo(g,h,i)perylene	<b>&lt;129</b>	ug/kg	372	129	1	01/20/22 08:19	01/26/22 19:06	191-24-2	
Benzo(k)fluoranthene	<b>308J</b>	ug/kg	372	165	1	01/20/22 08:19	01/26/22 19:06	207-08-9	lp
Benzoic acid	<b>&lt;1890</b>	ug/kg	5590	1890	1	01/20/22 08:19	01/26/22 19:06	65-85-0	L1
Benzyl alcohol	<b>&lt;329</b>	ug/kg	372	329	1	01/20/22 08:19	01/26/22 19:06	100-51-6	
4-Bromophenylphenyl ether	<b>&lt;137</b>	ug/kg	372	137	1	01/20/22 08:19	01/26/22 19:06	101-55-3	
Butylbenzylphthalate	<b>&lt;105</b>	ug/kg	372	105	1	01/20/22 08:19	01/26/22 19:06	85-68-7	
Carbazole	<b>&lt;146</b>	ug/kg	372	146	1	01/20/22 08:19	01/26/22 19:06	86-74-8	
4-Chloro-3-methylphenol	<b>&lt;60.0</b>	ug/kg	372	60.0	1	01/20/22 08:19	01/26/22 19:06	59-50-7	
4-Chloroaniline	<b>&lt;65.6</b>	ug/kg	372	65.6	1	01/20/22 08:19	01/26/22 19:06	106-47-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

Sample: **SB-01 (0-2)** Lab ID: **30459395015** Collected: 01/11/22 12:45 Received: 01/13/22 14:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
bis(2-Chloroethoxy)methane	<147	ug/kg	372	147	1	01/20/22 08:19	01/26/22 19:06	111-91-1	
bis(2-Chloroethyl) ether	<68.0	ug/kg	372	68.0	1	01/20/22 08:19	01/26/22 19:06	111-44-4	
bis(2-Chloroisopropyl) ether	<316	ug/kg	372	316	1	01/20/22 08:19	01/26/22 19:06	108-60-1	
2-Chloronaphthalene	<106	ug/kg	372	106	1	01/20/22 08:19	01/26/22 19:06	91-58-7	
2-Chlorophenol	<116	ug/kg	372	116	1	01/20/22 08:19	01/26/22 19:06	95-57-8	
4-Chlorophenylphenyl ether	<108	ug/kg	372	108	1	01/20/22 08:19	01/26/22 19:06	7005-72-3	
Chrysene	193J	ug/kg	372	138	1	01/20/22 08:19	01/26/22 19:06	218-01-9	
Dibenz(a,h)anthracene	<142	ug/kg	372	142	1	01/20/22 08:19	01/26/22 19:06	53-70-3	
Dibenzofuran	<119	ug/kg	372	119	1	01/20/22 08:19	01/26/22 19:06	132-64-9	
1,2-Dichlorobenzene	<116	ug/kg	372	116	1	01/20/22 08:19	01/26/22 19:06	95-50-1	
1,3-Dichlorobenzene	<110	ug/kg	372	110	1	01/20/22 08:19	01/26/22 19:06	541-73-1	
1,4-Dichlorobenzene	<51.5	ug/kg	372	51.5	1	01/20/22 08:19	01/26/22 19:06	106-46-7	
3,3'-Dichlorobenzidine	<109	ug/kg	372	109	1	01/20/22 08:19	01/26/22 19:06	91-94-1	
2,4-Dichlorophenol	<167	ug/kg	372	167	1	01/20/22 08:19	01/26/22 19:06	120-83-2	
Diethylphthalate	<131	ug/kg	372	131	1	01/20/22 08:19	01/26/22 19:06	84-66-2	
2,4-Dimethylphenol	<113	ug/kg	372	113	1	01/20/22 08:19	01/26/22 19:06	105-67-9	
Dimethylphthalate	<115	ug/kg	372	115	1	01/20/22 08:19	01/26/22 19:06	131-11-3	
Di-n-butylphthalate	<126	ug/kg	372	126	1	01/20/22 08:19	01/26/22 19:06	84-74-2	
4,6-Dinitro-2-methylphenol	<278	ug/kg	932	278	1	01/20/22 08:19	01/26/22 19:06	534-52-1	L1
2,4-Dinitrophenol	<838	ug/kg	932	838	1	01/20/22 08:19	01/26/22 19:06	51-28-5	
2,4-Dinitrotoluene	<113	ug/kg	372	113	1	01/20/22 08:19	01/26/22 19:06	121-14-2	
2,6-Dinitrotoluene	<113	ug/kg	372	113	1	01/20/22 08:19	01/26/22 19:06	606-20-2	
Di-n-octylphthalate	<84.6	ug/kg	372	84.6	1	01/20/22 08:19	01/26/22 19:06	117-84-0	
bis(2-Ethylhexyl)phthalate	<119	ug/kg	372	119	1	01/20/22 08:19	01/26/22 19:06	117-81-7	
Fluoranthene	319J	ug/kg	372	120	1	01/20/22 08:19	01/26/22 19:06	206-44-0	
Fluorene	<114	ug/kg	372	114	1	01/20/22 08:19	01/26/22 19:06	86-73-7	
Hexachloro-1,3-butadiene	<121	ug/kg	372	121	1	01/20/22 08:19	01/26/22 19:06	87-68-3	
Hexachlorobenzene	<107	ug/kg	372	107	1	01/20/22 08:19	01/26/22 19:06	118-74-1	
Hexachlorocyclopentadiene	<88.1	ug/kg	372	88.1	1	01/20/22 08:19	01/26/22 19:06	77-47-4	
Hexachloroethane	<101	ug/kg	372	101	1	01/20/22 08:19	01/26/22 19:06	67-72-1	
Indeno(1,2,3-cd)pyrene	<140	ug/kg	372	140	1	01/20/22 08:19	01/26/22 19:06	193-39-5	
Isophorone	<123	ug/kg	372	123	1	01/20/22 08:19	01/26/22 19:06	78-59-1	
1-Methylnaphthalene	255J	ug/kg	372	93.6	1	01/20/22 08:19	01/26/22 19:06	90-12-0	
2-Methylnaphthalene	296J	ug/kg	372	112	1	01/20/22 08:19	01/26/22 19:06	91-57-6	
2-Methylphenol(o-Cresol)	<134	ug/kg	372	134	1	01/20/22 08:19	01/26/22 19:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	<229	ug/kg	745	229	1	01/20/22 08:19	01/26/22 19:06		
Naphthalene	200J	ug/kg	372	101	1	01/20/22 08:19	01/26/22 19:06	91-20-3	
2-Nitroaniline	<129	ug/kg	932	129	1	01/20/22 08:19	01/26/22 19:06	88-74-4	
3-Nitroaniline	<243	ug/kg	932	243	1	01/20/22 08:19	01/26/22 19:06	99-09-2	
4-Nitroaniline	<523	ug/kg	932	523	1	01/20/22 08:19	01/26/22 19:06	100-01-6	L1
Nitrobenzene	<138	ug/kg	372	138	1	01/20/22 08:19	01/26/22 19:06	98-95-3	
2-Nitrophenol	<148	ug/kg	372	148	1	01/20/22 08:19	01/26/22 19:06	88-75-5	L1
4-Nitrophenol	<125	ug/kg	372	125	1	01/20/22 08:19	01/26/22 19:06	100-02-7	
N-Nitrosodimethylamine	<63.9	ug/kg	372	63.9	1	01/20/22 08:19	01/26/22 19:06	62-75-9	

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-01 (0-2)**      **Lab ID: 30459395015**      Collected: 01/11/22 12:45      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
N-Nitroso-di-n-propylamine	<158	ug/kg	372	158	1	01/20/22 08:19	01/26/22 19:06	621-64-7	
N-Nitrosodiphenylamine	<84.0	ug/kg	372	84.0	1	01/20/22 08:19	01/26/22 19:06	86-30-6	
Pentachlorophenol	<491	ug/kg	932	491	1	01/20/22 08:19	01/26/22 19:06	87-86-5	
Phenanthrene	269J	ug/kg	372	164	1	01/20/22 08:19	01/26/22 19:06	85-01-8	
Phenol	<110	ug/kg	372	110	1	01/20/22 08:19	01/26/22 19:06	108-95-2	
Pyrene	263J	ug/kg	372	136	1	01/20/22 08:19	01/26/22 19:06	129-00-0	
1,2,4-Trichlorobenzene	<101	ug/kg	372	101	1	01/20/22 08:19	01/26/22 19:06	120-82-1	
2,4,5-Trichlorophenol	<110	ug/kg	932	110	1	01/20/22 08:19	01/26/22 19:06	95-95-4	
2,4,6-Trichlorophenol	<97.3	ug/kg	372	97.3	1	01/20/22 08:19	01/26/22 19:06	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	104	%	41-112		1	01/20/22 08:19	01/26/22 19:06	4165-60-0	
2-Fluorobiphenyl (S)	106	%	49-108		1	01/20/22 08:19	01/26/22 19:06	321-60-8	
Terphenyl-d14 (S)	107	%	43-106		1	01/20/22 08:19	01/26/22 19:06	1718-51-0	ST
Phenol-d6 (S)	101	%	44-112		1	01/20/22 08:19	01/26/22 19:06	13127-88-3	
2-Fluorophenol (S)	101	%	44-113		1	01/20/22 08:19	01/26/22 19:06	367-12-4	
2,4,6-Tribromophenol (S)	103	%	31-133		1	01/20/22 08:19	01/26/22 19:06	118-79-6	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Greensburg									
Percent Moisture	11.4	%	0.10	0.10	1		01/18/22 10:57		

**Sample: SB-01 (6-7)**      **Lab ID: 30459395016**      Collected: 01/11/22 13:20      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	18.0	mg/kg	5.8	0.64	1	02/08/22 06:03	02/09/22 10:42	7440-38-2	
Barium	94.2	mg/kg	5.8	0.66	1	02/08/22 06:03	02/09/22 10:42	7440-39-3	
Cadmium	<0.14	mg/kg	1.2	0.14	1	02/08/22 06:03	02/09/22 10:42	7440-43-9	
Chromium	13.5	mg/kg	5.8	0.68	1	02/08/22 06:03	02/09/22 10:42	7440-47-3	
Lead	19.1	mg/kg	5.8	0.56	1	02/08/22 06:03	02/09/22 10:42	7439-92-1	
Selenium	3.3J	mg/kg	5.8	1.2	1	02/08/22 06:03	02/09/22 10:42	7782-49-2	
Silver	19.4	mg/kg	2.9	0.49	1	02/08/22 06:03	02/09/22 10:42	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	0.035J	mg/kg	0.12	0.011	1	02/10/22 11:49	02/14/22 15:27	7439-97-6	H1,H2

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-01 (6-7)**      **Lab ID: 30459395016**      Collected: 01/11/22 13:20      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<58.3	ug/kg	94.5	58.3	5	02/25/22 08:15	02/28/22 16:52	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<83.7	ug/kg	94.5	83.7	5	02/25/22 08:15	02/28/22 16:52	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<86.0	ug/kg	94.5	86.0	5	02/25/22 08:15	02/28/22 16:52	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<69.0	ug/kg	94.5	69.0	5	02/25/22 08:15	02/28/22 16:52	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<54.3	ug/kg	94.5	54.3	5	02/25/22 08:15	02/28/22 16:52	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<50.4	ug/kg	94.5	50.4	5	02/25/22 08:15	02/28/22 16:52	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<53.7	ug/kg	94.5	53.7	5	02/25/22 08:15	02/28/22 16:52	11096-82-5	ED
PCB, Total	<35.6	ug/kg	94.5	35.6	5	02/25/22 08:15	02/28/22 16:52	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	46-120		5	02/25/22 08:15	02/28/22 16:52	877-09-8	
Decachlorobiphenyl (S)	116	%	41-148		5	02/25/22 08:15	02/28/22 16:52	2051-24-3	CH
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<646	ug/kg	1900	646	5	01/20/22 08:19	01/26/22 19:28	83-32-9	ED
Acenaphthylene	<571	ug/kg	1900	571	5	01/20/22 08:19	01/26/22 19:28	208-96-8	ED
Anthracene	<437	ug/kg	1900	437	5	01/20/22 08:19	01/26/22 19:28	120-12-7	ED
Azobenzene	<670	ug/kg	1900	670	5	01/20/22 08:19	01/26/22 19:28	103-33-3	ED
Benzo(a)anthracene	<853	ug/kg	1900	853	5	01/20/22 08:19	01/26/22 19:28	56-55-3	ED
Benzo(a)pyrene	<591	ug/kg	1900	591	5	01/20/22 08:19	01/26/22 19:28	50-32-8	ED
Benzo(b)fluoranthene	<577	ug/kg	1900	577	5	01/20/22 08:19	01/26/22 19:28	205-99-2	ED,lp
Benzo(g,h,i)perylene	<659	ug/kg	1900	659	5	01/20/22 08:19	01/26/22 19:28	191-24-2	ED
Benzo(k)fluoranthene	<839	ug/kg	1900	839	5	01/20/22 08:19	01/26/22 19:28	207-08-9	ED,lp
Benzoic acid	<9630	ug/kg	28500	9630	5	01/20/22 08:19	01/26/22 19:28	65-85-0	ED,L1
Benzyl alcohol	<1680	ug/kg	1900	1680	5	01/20/22 08:19	01/26/22 19:28	100-51-6	ED
4-Bromophenylphenyl ether	<698	ug/kg	1900	698	5	01/20/22 08:19	01/26/22 19:28	101-55-3	ED
Butylbenzylphthalate	<534	ug/kg	1900	534	5	01/20/22 08:19	01/26/22 19:28	85-68-7	ED
Carbazole	<746	ug/kg	1900	746	5	01/20/22 08:19	01/26/22 19:28	86-74-8	ED
4-Chloro-3-methylphenol	<306	ug/kg	1900	306	5	01/20/22 08:19	01/26/22 19:28	59-50-7	ED
4-Chloroaniline	<334	ug/kg	1900	334	5	01/20/22 08:19	01/26/22 19:28	106-47-8	ED
bis(2-Chloroethoxy)methane	<752	ug/kg	1900	752	5	01/20/22 08:19	01/26/22 19:28	111-91-1	ED
bis(2-Chloroethyl) ether	<347	ug/kg	1900	347	5	01/20/22 08:19	01/26/22 19:28	111-44-4	ED
bis(2-Chloroisopropyl) ether	<1610	ug/kg	1900	1610	5	01/20/22 08:19	01/26/22 19:28	108-60-1	ED
2-Chloronaphthalene	<543	ug/kg	1900	543	5	01/20/22 08:19	01/26/22 19:28	91-58-7	ED
2-Chlorophenol	<592	ug/kg	1900	592	5	01/20/22 08:19	01/26/22 19:28	95-57-8	ED
4-Chlorophenylphenyl ether	<549	ug/kg	1900	549	5	01/20/22 08:19	01/26/22 19:28	7005-72-3	ED
Chrysene	<702	ug/kg	1900	702	5	01/20/22 08:19	01/26/22 19:28	218-01-9	ED
Dibenz(a,h)anthracene	<722	ug/kg	1900	722	5	01/20/22 08:19	01/26/22 19:28	53-70-3	ED
Dibenzofuran	<609	ug/kg	1900	609	5	01/20/22 08:19	01/26/22 19:28	132-64-9	ED
1,2-Dichlorobenzene	<594	ug/kg	1900	594	5	01/20/22 08:19	01/26/22 19:28	95-50-1	ED
1,3-Dichlorobenzene	<563	ug/kg	1900	563	5	01/20/22 08:19	01/26/22 19:28	541-73-1	ED
1,4-Dichlorobenzene	<262	ug/kg	1900	262	5	01/20/22 08:19	01/26/22 19:28	106-46-7	ED
3,3'-Dichlorobenzidine	<558	ug/kg	1900	558	5	01/20/22 08:19	01/26/22 19:28	91-94-1	ED
2,4-Dichlorophenol	<854	ug/kg	1900	854	5	01/20/22 08:19	01/26/22 19:28	120-83-2	ED

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-01 (6-7)**      **Lab ID: 30459395016**      Collected: 01/11/22 13:20      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Diethylphthalate	<669	ug/kg	1900	669	5	01/20/22 08:19	01/26/22 19:28	84-66-2	ED
2,4-Dimethylphenol	<577	ug/kg	1900	577	5	01/20/22 08:19	01/26/22 19:28	105-67-9	ED
Dimethylphthalate	<586	ug/kg	1900	586	5	01/20/22 08:19	01/26/22 19:28	131-11-3	ED
Di-n-butylphthalate	<641	ug/kg	1900	641	5	01/20/22 08:19	01/26/22 19:28	84-74-2	ED
4,6-Dinitro-2-methylphenol	<1420	ug/kg	4750	1420	5	01/20/22 08:19	01/26/22 19:28	534-52-1	ED, L1
2,4-Dinitrophenol	<4270	ug/kg	4750	4270	5	01/20/22 08:19	01/26/22 19:28	51-28-5	ED
2,4-Dinitrotoluene	<577	ug/kg	1900	577	5	01/20/22 08:19	01/26/22 19:28	121-14-2	ED
2,6-Dinitrotoluene	<578	ug/kg	1900	578	5	01/20/22 08:19	01/26/22 19:28	606-20-2	ED
Di-n-octylphthalate	<431	ug/kg	1900	431	5	01/20/22 08:19	01/26/22 19:28	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<606	ug/kg	1900	606	5	01/20/22 08:19	01/26/22 19:28	117-81-7	ED
Fluoranthene	<612	ug/kg	1900	612	5	01/20/22 08:19	01/26/22 19:28	206-44-0	ED
Fluorene	<582	ug/kg	1900	582	5	01/20/22 08:19	01/26/22 19:28	86-73-7	ED
Hexachloro-1,3-butadiene	<619	ug/kg	1900	619	5	01/20/22 08:19	01/26/22 19:28	87-68-3	ED
Hexachlorobenzene	<546	ug/kg	1900	546	5	01/20/22 08:19	01/26/22 19:28	118-74-1	ED
Hexachlorocyclopentadiene	<450	ug/kg	1900	450	5	01/20/22 08:19	01/26/22 19:28	77-47-4	ED
Hexachloroethane	<513	ug/kg	1900	513	5	01/20/22 08:19	01/26/22 19:28	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<715	ug/kg	1900	715	5	01/20/22 08:19	01/26/22 19:28	193-39-5	ED
Isophorone	<625	ug/kg	1900	625	5	01/20/22 08:19	01/26/22 19:28	78-59-1	ED
1-Methylnaphthalene	1360J	ug/kg	1900	478	5	01/20/22 08:19	01/26/22 19:28	90-12-0	ED
2-Methylnaphthalene	1500J	ug/kg	1900	571	5	01/20/22 08:19	01/26/22 19:28	91-57-6	ED
2-Methylphenol(o-Cresol)	<684	ug/kg	1900	684	5	01/20/22 08:19	01/26/22 19:28	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<1170	ug/kg	3800	1170	5	01/20/22 08:19	01/26/22 19:28		ED
Naphthalene	1020J	ug/kg	1900	515	5	01/20/22 08:19	01/26/22 19:28	91-20-3	ED
2-Nitroaniline	<660	ug/kg	4750	660	5	01/20/22 08:19	01/26/22 19:28	88-74-4	ED
3-Nitroaniline	<1240	ug/kg	4750	1240	5	01/20/22 08:19	01/26/22 19:28	99-09-2	ED
4-Nitroaniline	<2670	ug/kg	4750	2670	5	01/20/22 08:19	01/26/22 19:28	100-01-6	ED, L1
Nitrobenzene	<704	ug/kg	1900	704	5	01/20/22 08:19	01/26/22 19:28	98-95-3	ED
2-Nitrophenol	<754	ug/kg	1900	754	5	01/20/22 08:19	01/26/22 19:28	88-75-5	ED, L1
4-Nitrophenol	<639	ug/kg	1900	639	5	01/20/22 08:19	01/26/22 19:28	100-02-7	ED
N-Nitrosodimethylamine	<326	ug/kg	1900	326	5	01/20/22 08:19	01/26/22 19:28	62-75-9	ED
N-Nitroso-di-n-propylamine	<804	ug/kg	1900	804	5	01/20/22 08:19	01/26/22 19:28	621-64-7	ED
N-Nitrosodiphenylamine	<429	ug/kg	1900	429	5	01/20/22 08:19	01/26/22 19:28	86-30-6	ED
Pentachlorophenol	<2500	ug/kg	4750	2500	5	01/20/22 08:19	01/26/22 19:28	87-86-5	ED
Phenanthrene	990J	ug/kg	1900	835	5	01/20/22 08:19	01/26/22 19:28	85-01-8	ED
Phenol	<563	ug/kg	1900	563	5	01/20/22 08:19	01/26/22 19:28	108-95-2	ED
Pyrene	<694	ug/kg	1900	694	5	01/20/22 08:19	01/26/22 19:28	129-00-0	ED
1,2,4-Trichlorobenzene	<514	ug/kg	1900	514	5	01/20/22 08:19	01/26/22 19:28	120-82-1	ED
2,4,5-Trichlorophenol	<562	ug/kg	4750	562	5	01/20/22 08:19	01/26/22 19:28	95-95-4	ED
2,4,6-Trichlorophenol	<496	ug/kg	1900	496	5	01/20/22 08:19	01/26/22 19:28	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	110	%	41-112		5	01/20/22 08:19	01/26/22 19:28	4165-60-0	
2-Fluorobiphenyl (S)	119	%	49-108		5	01/20/22 08:19	01/26/22 19:28	321-60-8	ST
Terphenyl-d14 (S)	121	%	43-106		5	01/20/22 08:19	01/26/22 19:28	1718-51-0	ST
Phenol-d6 (S)	113	%	44-112		5	01/20/22 08:19	01/26/22 19:28	13127-88-3	ST

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-01 (6-7)**      **Lab ID: 30459395016**      Collected: 01/11/22 13:20      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
<b>Surrogates</b>									
2-Fluorophenol (S)	111	%	44-113		5	01/20/22 08:19	01/26/22 19:28	367-12-4	
2,4,6-Tribromophenol (S)	107	%	31-133		5	01/20/22 08:19	01/26/22 19:28	118-79-6	
<b>8260C MSV 5035 Low Level</b>									
Analytical Method: EPA 8260C    Preparation Method: EPA 5035A									
Pace Analytical Services - Greensburg									
Acetone	15.1	ug/kg	10.9	3.5	1	01/20/22 12:40	01/20/22 14:36	67-64-1	1c
Benzene	<0.94	ug/kg	5.4	0.94	1	01/20/22 12:40	01/20/22 14:36	71-43-2	1c
Bromochloromethane	<1.2	ug/kg	5.4	1.2	1	01/20/22 12:40	01/20/22 14:36	74-97-5	1c
Bromodichloromethane	<1.2	ug/kg	5.4	1.2	1	01/20/22 12:40	01/20/22 14:36	75-27-4	1c
Bromoform	<0.72	ug/kg	5.4	0.72	1	01/20/22 12:40	01/20/22 14:36	75-25-2	1c, L1
Bromomethane	<2.0	ug/kg	5.4	2.0	1	01/20/22 12:40	01/20/22 14:36	74-83-9	1c
TOTAL BTEX	<6.6	ug/kg	32.6	6.6	1	01/20/22 12:40	01/20/22 14:36		
2-Butanone (MEK)	<0.99	ug/kg	10.9	0.99	1	01/20/22 12:40	01/20/22 14:36	78-93-3	1c
Carbon disulfide	<1.5	ug/kg	5.4	1.5	1	01/20/22 12:40	01/20/22 14:36	75-15-0	1c
Carbon tetrachloride	<1.9	ug/kg	5.4	1.9	1	01/20/22 12:40	01/20/22 14:36	56-23-5	1c
Chlorobenzene	<0.85	ug/kg	5.4	0.85	1	01/20/22 12:40	01/20/22 14:36	108-90-7	1c
Chloroethane	<2.3	ug/kg	5.4	2.3	1	01/20/22 12:40	01/20/22 14:36	75-00-3	1c
Chloroform	<1.6	ug/kg	5.4	1.6	1	01/20/22 12:40	01/20/22 14:36	67-66-3	1c
Chloromethane	<1.8	ug/kg	5.4	1.8	1	01/20/22 12:40	01/20/22 14:36	74-87-3	1c
Dibromochloromethane	<0.86	ug/kg	5.4	0.86	1	01/20/22 12:40	01/20/22 14:36	124-48-1	1c
1,2-Dichlorobenzene	<0.64	ug/kg	5.4	0.64	1	01/20/22 12:40	01/20/22 14:36	95-50-1	1c
1,3-Dichlorobenzene	<0.71	ug/kg	5.4	0.71	1	01/20/22 12:40	01/20/22 14:36	541-73-1	1c
1,4-Dichlorobenzene	<0.77	ug/kg	5.4	0.77	1	01/20/22 12:40	01/20/22 14:36	106-46-7	1c
1,1-Dichloroethane	<1.4	ug/kg	5.4	1.4	1	01/20/22 12:40	01/20/22 14:36	75-34-3	1c
1,2-Dichloroethane	<1.4	ug/kg	5.4	1.4	1	01/20/22 12:40	01/20/22 14:36	107-06-2	1c
1,2-Dichloroethene (Total)	<2.6	ug/kg	10.9	2.6	1	01/20/22 12:40	01/20/22 14:36	540-59-0	
1,1-Dichloroethene	<2.0	ug/kg	5.4	2.0	1	01/20/22 12:40	01/20/22 14:36	75-35-4	1c
cis-1,2-Dichloroethene	<1.3	ug/kg	5.4	1.3	1	01/20/22 12:40	01/20/22 14:36	156-59-2	1c
trans-1,2-Dichloroethene	<1.4	ug/kg	5.4	1.4	1	01/20/22 12:40	01/20/22 14:36	156-60-5	1c
1,2-Dichloropropane	<0.78	ug/kg	5.4	0.78	1	01/20/22 12:40	01/20/22 14:36	78-87-5	1c
cis-1,3-Dichloropropene	<0.54	ug/kg	5.4	0.54	1	01/20/22 12:40	01/20/22 14:36	10061-01-5	1c
trans-1,3-Dichloropropene	<1.1	ug/kg	5.4	1.1	1	01/20/22 12:40	01/20/22 14:36	10061-02-6	1c
Ethylbenzene	<1.2	ug/kg	5.4	1.2	1	01/20/22 12:40	01/20/22 14:36	100-41-4	1c
2-Hexanone	<1.1	ug/kg	10.9	1.1	1	01/20/22 12:40	01/20/22 14:36	591-78-6	1c
Isopropylbenzene (Cumene)	<1.3	ug/kg	5.4	1.3	1	01/20/22 12:40	01/20/22 14:36	98-82-8	1c
Methylene Chloride	<4.5	ug/kg	5.4	4.5	1	01/20/22 12:40	01/20/22 14:36	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	<1.2	ug/kg	10.9	1.2	1	01/20/22 12:40	01/20/22 14:36	108-10-1	1c
Methyl-tert-butyl ether	<0.73	ug/kg	5.4	0.73	1	01/20/22 12:40	01/20/22 14:36	1634-04-4	1c
Naphthalene	<1.0	ug/kg	5.4	1.0	1	01/20/22 12:40	01/20/22 14:36	91-20-3	1c
Styrene	<1.6	ug/kg	5.4	1.6	1	01/20/22 12:40	01/20/22 14:36	100-42-5	1c
1,1,2,2-Tetrachloroethane	<0.64	ug/kg	5.4	0.64	1	01/20/22 12:40	01/20/22 14:36	79-34-5	1c
Tetrachloroethene	<1.9	ug/kg	5.4	1.9	1	01/20/22 12:40	01/20/22 14:36	127-18-4	1c
Toluene	<1.1	ug/kg	5.4	1.1	1	01/20/22 12:40	01/20/22 14:36	108-88-3	1c

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: SB-01 (6-7)**      **Lab ID: 30459395016**      Collected: 01/11/22 13:20      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV 5035 Low Level</b>									
Analytical Method: EPA 8260C    Preparation Method: EPA 5035A									
Pace Analytical Services - Greensburg									
1,2,4-Trichlorobenzene	<1.4	ug/kg	5.4	1.4	1	01/20/22 12:40	01/20/22 14:36	120-82-1	1c
1,1,1-Trichloroethane	<1.6	ug/kg	5.4	1.6	1	01/20/22 12:40	01/20/22 14:36	71-55-6	1c
1,1,2-Trichloroethane	<1.1	ug/kg	5.4	1.1	1	01/20/22 12:40	01/20/22 14:36	79-00-5	1c
Trichloroethene	<1.6	ug/kg	5.4	1.6	1	01/20/22 12:40	01/20/22 14:36	79-01-6	1c
1,2,4-Trimethylbenzene	<2.6	ug/kg	5.4	2.6	1	01/20/22 12:40	01/20/22 14:36	95-63-6	1c
1,3,5-Trimethylbenzene	<2.2	ug/kg	5.4	2.2	1	01/20/22 12:40	01/20/22 14:36	108-67-8	1c
Vinyl chloride	<2.3	ug/kg	5.4	2.3	1	01/20/22 12:40	01/20/22 14:36	75-01-4	1c
Xylene (Total)	<3.4	ug/kg	16.3	3.4	1	01/20/22 12:40	01/20/22 14:36	1330-20-7	
m&p-Xylene	<2.3	ug/kg	10.9	2.3	1	01/20/22 12:40	01/20/22 14:36	179601-23-1	1c
o-Xylene	<1.2	ug/kg	5.4	1.2	1	01/20/22 12:40	01/20/22 14:36	95-47-6	1c
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	70-130		1	01/20/22 12:40	01/20/22 14:36	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1	01/20/22 12:40	01/20/22 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1	01/20/22 12:40	01/20/22 14:36	17060-07-0	
Dibromofluoromethane (S)	97	%	70-130		1	01/20/22 12:40	01/20/22 14:36	1868-53-7	
<b>8260C MSV SPLP</b>									
Analytical Method: EPA 8260C    Leachate Method/Date: EPA 1312; 02/24/22 11:40									
Pace Analytical Services - Greensburg									
Benzene	<8.7	ug/L	50.0	8.7	10		02/25/22 15:53	71-43-2	H2
2-Butanone (MEK)	<9.1	ug/L	100	9.1	10		02/25/22 15:53	78-93-3	H2
Carbon tetrachloride	<17.2	ug/L	50.0	17.2	10		02/25/22 15:53	56-23-5	H2
Chlorobenzene	<7.8	ug/L	50.0	7.8	10		02/25/22 15:53	108-90-7	H2
Chloroform	<15.0	ug/L	50.0	15.0	10		02/25/22 15:53	67-66-3	H2
1,2-Dichloroethane	<12.9	ug/L	50.0	12.9	10		02/25/22 15:53	107-06-2	H2
1,1-Dichloroethene	<18.6	ug/L	50.0	18.6	10		02/25/22 15:53	75-35-4	H2
Tetrachloroethene	<17.3	ug/L	50.0	17.3	10		02/25/22 15:53	127-18-4	H2
Trichloroethene	<14.7	ug/L	50.0	14.7	10		02/25/22 15:53	79-01-6	H2
Vinyl chloride	<21.5	ug/L	50.0	21.5	10		02/25/22 15:53	75-01-4	H2
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	70-130		10		02/25/22 15:53	17060-07-0	
Toluene-d8 (S)	98	%	70-130		10		02/25/22 15:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		10		02/25/22 15:53	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		10		02/25/22 15:53	1868-53-7	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Greensburg									
Percent Moisture	13.9	%	0.10	0.10	1		01/18/22 10:57		

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-02 (0-2)**      **Lab ID: 30459395017**      Collected: 01/11/22 13:45      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	11.6	mg/kg	7.2	0.79	1	02/08/22 06:03	02/09/22 10:44	7440-38-2	
Barium	200	mg/kg	7.2	0.82	1	02/08/22 06:03	02/09/22 10:44	7440-39-3	
Cadmium	0.32J	mg/kg	1.4	0.17	1	02/08/22 06:03	02/09/22 10:44	7440-43-9	
Chromium	16.8	mg/kg	7.2	0.83	1	02/08/22 06:03	02/09/22 10:44	7440-47-3	
Lead	42.4	mg/kg	7.2	0.69	1	02/08/22 06:03	02/09/22 10:44	7439-92-1	
Selenium	2.7J	mg/kg	7.2	1.5	1	02/08/22 06:03	02/09/22 10:44	7782-49-2	
Silver	15.6	mg/kg	3.6	0.61	1	02/08/22 06:03	02/09/22 10:44	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	0.066J	mg/kg	0.14	0.013	1	02/08/22 14:53	02/14/22 15:16	7439-97-6	H1
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<72.5	ug/kg	118	72.5	5	02/25/22 08:15	02/28/22 17:09	12674-11-2	ED
PCB-1221 (Aroclor 1221)	<104	ug/kg	118	104	5	02/25/22 08:15	02/28/22 17:09	11104-28-2	ED
PCB-1232 (Aroclor 1232)	<107	ug/kg	118	107	5	02/25/22 08:15	02/28/22 17:09	11141-16-5	ED
PCB-1242 (Aroclor 1242)	<85.9	ug/kg	118	85.9	5	02/25/22 08:15	02/28/22 17:09	53469-21-9	ED
PCB-1248 (Aroclor 1248)	<67.6	ug/kg	118	67.6	5	02/25/22 08:15	02/28/22 17:09	12672-29-6	ED
PCB-1254 (Aroclor 1254)	<62.7	ug/kg	118	62.7	5	02/25/22 08:15	02/28/22 17:09	11097-69-1	ED
PCB-1260 (Aroclor 1260)	<66.9	ug/kg	118	66.9	5	02/25/22 08:15	02/28/22 17:09	11096-82-5	ED
PCB, Total	<44.4	ug/kg	118	44.4	5	02/25/22 08:15	02/28/22 17:09	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	74	%	46-120		5	02/25/22 08:15	02/28/22 17:09	877-09-8	
Decachlorobiphenyl (S)	111	%	41-148		5	02/25/22 08:15	02/28/22 17:09	2051-24-3	CH
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<807	ug/kg	2370	807	5	01/20/22 08:19	01/20/22 23:41	83-32-9	ED
Acenaphthylene	<713	ug/kg	2370	713	5	01/20/22 08:19	01/20/22 23:41	208-96-8	ED
Anthracene	<546	ug/kg	2370	546	5	01/20/22 08:19	01/20/22 23:41	120-12-7	ED
Azobenzene	<838	ug/kg	2370	838	5	01/20/22 08:19	01/20/22 23:41	103-33-3	ED
Benzo(a)anthracene	<1070	ug/kg	2370	1070	5	01/20/22 08:19	01/20/22 23:41	56-55-3	ED
Benzo(a)pyrene	<738	ug/kg	2370	738	5	01/20/22 08:19	01/20/22 23:41	50-32-8	ED
Benzo(b)fluoranthene	<722	ug/kg	2370	722	5	01/20/22 08:19	01/20/22 23:41	205-99-2	ED,lp
Benzo(g,h,i)perylene	<824	ug/kg	2370	824	5	01/20/22 08:19	01/20/22 23:41	191-24-2	ED
Benzo(k)fluoranthene	<1050	ug/kg	2370	1050	5	01/20/22 08:19	01/20/22 23:41	207-08-9	ED,lp
Benzoic acid	<12000	ug/kg	35600	12000	5	01/20/22 08:19	01/20/22 23:41	65-85-0	CH,ED, L1
Benzyl alcohol	<2100	ug/kg	2370	2100	5	01/20/22 08:19	01/20/22 23:41	100-51-6	ED
4-Bromophenylphenyl ether	<873	ug/kg	2370	873	5	01/20/22 08:19	01/20/22 23:41	101-55-3	ED
Butylbenzylphthalate	<667	ug/kg	2370	667	5	01/20/22 08:19	01/20/22 23:41	85-68-7	ED
Carbazole	<933	ug/kg	2370	933	5	01/20/22 08:19	01/20/22 23:41	86-74-8	ED
4-Chloro-3-methylphenol	<382	ug/kg	2370	382	5	01/20/22 08:19	01/20/22 23:41	59-50-7	ED

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-02 (0-2)**      **Lab ID: 30459395017**      Collected: 01/11/22 13:45      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
4-Chloroaniline	<418	ug/kg	2370	418	5	01/20/22 08:19	01/20/22 23:41	106-47-8	ED
bis(2-Chloroethoxy)methane	<940	ug/kg	2370	940	5	01/20/22 08:19	01/20/22 23:41	111-91-1	ED
bis(2-Chloroethyl) ether	<434	ug/kg	2370	434	5	01/20/22 08:19	01/20/22 23:41	111-44-4	ED
bis(2-Chloroisopropyl) ether	<2010	ug/kg	2370	2010	5	01/20/22 08:19	01/20/22 23:41	108-60-1	ED
2-Chloronaphthalene	<678	ug/kg	2370	678	5	01/20/22 08:19	01/20/22 23:41	91-58-7	ED
2-Chlorophenol	<740	ug/kg	2370	740	5	01/20/22 08:19	01/20/22 23:41	95-57-8	ED
4-Chlorophenylphenyl ether	<687	ug/kg	2370	687	5	01/20/22 08:19	01/20/22 23:41	7005-72-3	ED
Chrysene	<878	ug/kg	2370	878	5	01/20/22 08:19	01/20/22 23:41	218-01-9	ED
Dibenz(a,h)anthracene	<903	ug/kg	2370	903	5	01/20/22 08:19	01/20/22 23:41	53-70-3	ED
Dibenzofuran	<762	ug/kg	2370	762	5	01/20/22 08:19	01/20/22 23:41	132-64-9	ED
1,2-Dichlorobenzene	<742	ug/kg	2370	742	5	01/20/22 08:19	01/20/22 23:41	95-50-1	ED
1,3-Dichlorobenzene	<703	ug/kg	2370	703	5	01/20/22 08:19	01/20/22 23:41	541-73-1	ED
1,4-Dichlorobenzene	<328	ug/kg	2370	328	5	01/20/22 08:19	01/20/22 23:41	106-46-7	ED
3,3'-Dichlorobenzidine	<697	ug/kg	2370	697	5	01/20/22 08:19	01/20/22 23:41	91-94-1	ED
2,4-Dichlorophenol	<1070	ug/kg	2370	1070	5	01/20/22 08:19	01/20/22 23:41	120-83-2	ED
Diethylphthalate	<836	ug/kg	2370	836	5	01/20/22 08:19	01/20/22 23:41	84-66-2	ED
2,4-Dimethylphenol	<722	ug/kg	2370	722	5	01/20/22 08:19	01/20/22 23:41	105-67-9	ED
Dimethylphthalate	<732	ug/kg	2370	732	5	01/20/22 08:19	01/20/22 23:41	131-11-3	ED
Di-n-butylphthalate	<801	ug/kg	2370	801	5	01/20/22 08:19	01/20/22 23:41	84-74-2	ED
4,6-Dinitro-2-methylphenol	<1770	ug/kg	5940	1770	5	01/20/22 08:19	01/20/22 23:41	534-52-1	ED, L1
2,4-Dinitrophenol	<5340	ug/kg	5940	5340	5	01/20/22 08:19	01/20/22 23:41	51-28-5	CH,ED
2,4-Dinitrotoluene	<721	ug/kg	2370	721	5	01/20/22 08:19	01/20/22 23:41	121-14-2	ED
2,6-Dinitrotoluene	<722	ug/kg	2370	722	5	01/20/22 08:19	01/20/22 23:41	606-20-2	ED
Di-n-octylphthalate	<539	ug/kg	2370	539	5	01/20/22 08:19	01/20/22 23:41	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<757	ug/kg	2370	757	5	01/20/22 08:19	01/20/22 23:41	117-81-7	ED
Fluoranthene	<764	ug/kg	2370	764	5	01/20/22 08:19	01/20/22 23:41	206-44-0	ED
Fluorene	<727	ug/kg	2370	727	5	01/20/22 08:19	01/20/22 23:41	86-73-7	ED
Hexachloro-1,3-butadiene	<774	ug/kg	2370	774	5	01/20/22 08:19	01/20/22 23:41	87-68-3	ED
Hexachlorobenzene	<682	ug/kg	2370	682	5	01/20/22 08:19	01/20/22 23:41	118-74-1	ED
Hexachlorocyclopentadiene	<562	ug/kg	2370	562	5	01/20/22 08:19	01/20/22 23:41	77-47-4	ED
Hexachloroethane	<641	ug/kg	2370	641	5	01/20/22 08:19	01/20/22 23:41	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<894	ug/kg	2370	894	5	01/20/22 08:19	01/20/22 23:41	193-39-5	ED
Isophorone	<782	ug/kg	2370	782	5	01/20/22 08:19	01/20/22 23:41	78-59-1	ED
1-Methylnaphthalene	<597	ug/kg	2370	597	5	01/20/22 08:19	01/20/22 23:41	90-12-0	ED
2-Methylnaphthalene	<714	ug/kg	2370	714	5	01/20/22 08:19	01/20/22 23:41	91-57-6	ED
2-Methylphenol(o-Cresol)	<854	ug/kg	2370	854	5	01/20/22 08:19	01/20/22 23:41	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<1460	ug/kg	4750	1460	5	01/20/22 08:19	01/20/22 23:41		ED
Naphthalene	<644	ug/kg	2370	644	5	01/20/22 08:19	01/20/22 23:41	91-20-3	ED
2-Nitroaniline	<825	ug/kg	5940	825	5	01/20/22 08:19	01/20/22 23:41	88-74-4	ED
3-Nitroaniline	<1550	ug/kg	5940	1550	5	01/20/22 08:19	01/20/22 23:41	99-09-2	ED
4-Nitroaniline	<3330	ug/kg	5940	3330	5	01/20/22 08:19	01/20/22 23:41	100-01-6	CH,ED, L1
Nitrobenzene	<880	ug/kg	2370	880	5	01/20/22 08:19	01/20/22 23:41	98-95-3	ED
2-Nitrophenol	<943	ug/kg	2370	943	5	01/20/22 08:19	01/20/22 23:41	88-75-5	ED, L1

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-02 (0-2)**      **Lab ID: 30459395017**      Collected: 01/11/22 13:45      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
4-Nitrophenol	<799	ug/kg	2370	799	5	01/20/22 08:19	01/20/22 23:41	100-02-7	CH,ED
N-Nitrosodimethylamine	<407	ug/kg	2370	407	5	01/20/22 08:19	01/20/22 23:41	62-75-9	ED
N-Nitroso-di-n-propylamine	<1000	ug/kg	2370	1000	5	01/20/22 08:19	01/20/22 23:41	621-64-7	ED
N-Nitrosodiphenylamine	<536	ug/kg	2370	536	5	01/20/22 08:19	01/20/22 23:41	86-30-6	ED
Pentachlorophenol	<3130	ug/kg	5940	3130	5	01/20/22 08:19	01/20/22 23:41	87-86-5	ED
Phenanthrene	<1040	ug/kg	2370	1040	5	01/20/22 08:19	01/20/22 23:41	85-01-8	ED
Phenol	<704	ug/kg	2370	704	5	01/20/22 08:19	01/20/22 23:41	108-95-2	ED
Pyrene	<868	ug/kg	2370	868	5	01/20/22 08:19	01/20/22 23:41	129-00-0	ED
1,2,4-Trichlorobenzene	<643	ug/kg	2370	643	5	01/20/22 08:19	01/20/22 23:41	120-82-1	ED
2,4,5-Trichlorophenol	<702	ug/kg	5940	702	5	01/20/22 08:19	01/20/22 23:41	95-95-4	ED
2,4,6-Trichlorophenol	<620	ug/kg	2370	620	5	01/20/22 08:19	01/20/22 23:41	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	105	%	41-112		5	01/20/22 08:19	01/20/22 23:41	4165-60-0	
2-Fluorobiphenyl (S)	105	%	49-108		5	01/20/22 08:19	01/20/22 23:41	321-60-8	
Terphenyl-d14 (S)	107	%	43-106		5	01/20/22 08:19	01/20/22 23:41	1718-51-0	ST
Phenol-d6 (S)	108	%	44-112		5	01/20/22 08:19	01/20/22 23:41	13127-88-3	
2-Fluorophenol (S)	107	%	44-113		5	01/20/22 08:19	01/20/22 23:41	367-12-4	
2,4,6-Tribromophenol (S)	99	%	31-133		5	01/20/22 08:19	01/20/22 23:41	118-79-6	

**Percent Moisture**

Analytical Method: ASTM D2974-87  
Pace Analytical Services - Greensburg

Percent Moisture	<b>30.8</b>	%	0.10	0.10	1		01/18/22 10:57		
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**Sample: SB-02 (12-14)**      **Lab ID: 30459395018**      Collected: 01/11/22 14:04      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>BVR 6010D MET ICP,Solid,3050B</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050B									
Pace Analytical Services - Beaver									
Arsenic	<b>16.7</b>	mg/kg	5.5	0.61	1	02/08/22 06:03	02/09/22 10:46	7440-38-2	
Barium	<b>134</b>	mg/kg	5.5	0.63	1	02/08/22 06:03	02/09/22 10:46	7440-39-3	
Cadmium	<0.13	mg/kg	1.1	0.13	1	02/08/22 06:03	02/09/22 10:46	7440-43-9	
Chromium	<b>25.1</b>	mg/kg	5.5	0.64	1	02/08/22 06:03	02/09/22 10:46	7440-47-3	
Lead	<b>19.1</b>	mg/kg	5.5	0.53	1	02/08/22 06:03	02/09/22 10:46	7439-92-1	
Selenium	<b>1.9J</b>	mg/kg	5.5	1.2	1	02/08/22 06:03	02/09/22 10:46	7782-49-2	
Silver	<b>19.0</b>	mg/kg	2.8	0.47	1	02/08/22 06:03	02/09/22 10:46	7440-22-4	
<b>BVR 7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Pace Analytical Services - Beaver									
Mercury	<b>0.030J</b>	mg/kg	0.11	0.010	1	02/08/22 14:53	02/14/22 14:57	7439-97-6	H1

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: SB-02 (12-14)**      **Lab ID: 30459395018**      Collected: 01/11/22 14:04      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
PCB-1016 (Aroclor 1016)	<11.0	ug/kg	17.9	11.0	1	02/25/22 08:15	02/28/22 17:26	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.8	ug/kg	17.9	15.8	1	02/25/22 08:15	02/28/22 17:26	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.2	ug/kg	17.9	16.2	1	02/25/22 08:15	02/28/22 17:26	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.0	ug/kg	17.9	13.0	1	02/25/22 08:15	02/28/22 17:26	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.3	ug/kg	17.9	10.3	1	02/25/22 08:15	02/28/22 17:26	12672-29-6	
PCB-1254 (Aroclor 1254)	<9.5	ug/kg	17.9	9.5	1	02/25/22 08:15	02/28/22 17:26	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.2	ug/kg	17.9	10.2	1	02/25/22 08:15	02/28/22 17:26	11096-82-5	
PCB, Total	<6.7	ug/kg	17.9	6.7	1	02/25/22 08:15	02/28/22 17:26	1336-36-3	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	46-120		1	02/25/22 08:15	02/28/22 17:26	877-09-8	
Decachlorobiphenyl (S)	117	%	41-148		1	02/25/22 08:15	02/28/22 17:26	2051-24-3	CH,E
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
Acenaphthene	<600	ug/kg	1760	600	5	01/20/22 08:19	01/21/22 00:02	83-32-9	ED
Acenaphthylene	<530	ug/kg	1760	530	5	01/20/22 08:19	01/21/22 00:02	208-96-8	ED
Anthracene	<405	ug/kg	1760	405	5	01/20/22 08:19	01/21/22 00:02	120-12-7	ED
Azobenzene	<623	ug/kg	1760	623	5	01/20/22 08:19	01/21/22 00:02	103-33-3	ED
Benzo(a)anthracene	<792	ug/kg	1760	792	5	01/20/22 08:19	01/21/22 00:02	56-55-3	ED
Benzo(a)pyrene	<549	ug/kg	1760	549	5	01/20/22 08:19	01/21/22 00:02	50-32-8	ED
Benzo(b)fluoranthene	<536	ug/kg	1760	536	5	01/20/22 08:19	01/21/22 00:02	205-99-2	ED,lp
Benzo(g,h,i)perylene	<612	ug/kg	1760	612	5	01/20/22 08:19	01/21/22 00:02	191-24-2	ED
Benzo(k)fluoranthene	<780	ug/kg	1760	780	5	01/20/22 08:19	01/21/22 00:02	207-08-9	ED,lp
Benzoic acid	<8940	ug/kg	26500	8940	5	01/20/22 08:19	01/21/22 00:02	65-85-0	CH,ED, L1
Benzyl alcohol	<1560	ug/kg	1760	1560	5	01/20/22 08:19	01/21/22 00:02	100-51-6	ED
4-Bromophenylphenyl ether	<649	ug/kg	1760	649	5	01/20/22 08:19	01/21/22 00:02	101-55-3	ED
Butylbenzylphthalate	<496	ug/kg	1760	496	5	01/20/22 08:19	01/21/22 00:02	85-68-7	ED
Carbazole	<693	ug/kg	1760	693	5	01/20/22 08:19	01/21/22 00:02	86-74-8	ED
4-Chloro-3-methylphenol	<284	ug/kg	1760	284	5	01/20/22 08:19	01/21/22 00:02	59-50-7	ED
4-Chloroaniline	<311	ug/kg	1760	311	5	01/20/22 08:19	01/21/22 00:02	106-47-8	ED
bis(2-Chloroethoxy)methane	<699	ug/kg	1760	699	5	01/20/22 08:19	01/21/22 00:02	111-91-1	ED
bis(2-Chloroethyl) ether	<322	ug/kg	1760	322	5	01/20/22 08:19	01/21/22 00:02	111-44-4	ED
bis(2-Chloroisopropyl) ether	<1500	ug/kg	1760	1500	5	01/20/22 08:19	01/21/22 00:02	108-60-1	ED
2-Chloronaphthalene	<504	ug/kg	1760	504	5	01/20/22 08:19	01/21/22 00:02	91-58-7	ED
2-Chlorophenol	<550	ug/kg	1760	550	5	01/20/22 08:19	01/21/22 00:02	95-57-8	ED
4-Chlorophenylphenyl ether	<510	ug/kg	1760	510	5	01/20/22 08:19	01/21/22 00:02	7005-72-3	ED
Chrysene	<652	ug/kg	1760	652	5	01/20/22 08:19	01/21/22 00:02	218-01-9	ED
Dibenz(a,h)anthracene	<671	ug/kg	1760	671	5	01/20/22 08:19	01/21/22 00:02	53-70-3	ED
Dibenzofuran	<566	ug/kg	1760	566	5	01/20/22 08:19	01/21/22 00:02	132-64-9	ED
1,2-Dichlorobenzene	<552	ug/kg	1760	552	5	01/20/22 08:19	01/21/22 00:02	95-50-1	ED
1,3-Dichlorobenzene	<523	ug/kg	1760	523	5	01/20/22 08:19	01/21/22 00:02	541-73-1	ED
1,4-Dichlorobenzene	<244	ug/kg	1760	244	5	01/20/22 08:19	01/21/22 00:02	106-46-7	ED
3,3'-Dichlorobenzidine	<518	ug/kg	1760	518	5	01/20/22 08:19	01/21/22 00:02	91-94-1	ED

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-02 (12-14)**      **Lab ID: 30459395018**      Collected: 01/11/22 14:04      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
2,4-Dichlorophenol	<793	ug/kg	1760	793	5	01/20/22 08:19	01/21/22 00:02	120-83-2	ED
Diethylphthalate	<622	ug/kg	1760	622	5	01/20/22 08:19	01/21/22 00:02	84-66-2	ED
2,4-Dimethylphenol	<536	ug/kg	1760	536	5	01/20/22 08:19	01/21/22 00:02	105-67-9	ED
Dimethylphthalate	<544	ug/kg	1760	544	5	01/20/22 08:19	01/21/22 00:02	131-11-3	ED
Di-n-butylphthalate	<595	ug/kg	1760	595	5	01/20/22 08:19	01/21/22 00:02	84-74-2	ED
4,6-Dinitro-2-methylphenol	<1310	ug/kg	4410	1310	5	01/20/22 08:19	01/21/22 00:02	534-52-1	ED,L1
2,4-Dinitrophenol	<3970	ug/kg	4410	3970	5	01/20/22 08:19	01/21/22 00:02	51-28-5	CH,ED
2,4-Dinitrotoluene	<536	ug/kg	1760	536	5	01/20/22 08:19	01/21/22 00:02	121-14-2	ED
2,6-Dinitrotoluene	<537	ug/kg	1760	537	5	01/20/22 08:19	01/21/22 00:02	606-20-2	ED
Di-n-octylphthalate	<401	ug/kg	1760	401	5	01/20/22 08:19	01/21/22 00:02	117-84-0	ED
bis(2-Ethylhexyl)phthalate	<563	ug/kg	1760	563	5	01/20/22 08:19	01/21/22 00:02	117-81-7	ED
Fluoranthene	<568	ug/kg	1760	568	5	01/20/22 08:19	01/21/22 00:02	206-44-0	ED
Fluorene	<541	ug/kg	1760	541	5	01/20/22 08:19	01/21/22 00:02	86-73-7	ED
Hexachloro-1,3-butadiene	<575	ug/kg	1760	575	5	01/20/22 08:19	01/21/22 00:02	87-68-3	ED
Hexachlorobenzene	<507	ug/kg	1760	507	5	01/20/22 08:19	01/21/22 00:02	118-74-1	ED
Hexachlorocyclopentadiene	<418	ug/kg	1760	418	5	01/20/22 08:19	01/21/22 00:02	77-47-4	ED
Hexachloroethane	<476	ug/kg	1760	476	5	01/20/22 08:19	01/21/22 00:02	67-72-1	ED
Indeno(1,2,3-cd)pyrene	<664	ug/kg	1760	664	5	01/20/22 08:19	01/21/22 00:02	193-39-5	ED
Isophorone	<581	ug/kg	1760	581	5	01/20/22 08:19	01/21/22 00:02	78-59-1	ED
1-Methylnaphthalene	<444	ug/kg	1760	444	5	01/20/22 08:19	01/21/22 00:02	90-12-0	ED
2-Methylnaphthalene	<531	ug/kg	1760	531	5	01/20/22 08:19	01/21/22 00:02	91-57-6	ED
2-Methylphenol(o-Cresol)	<635	ug/kg	1760	635	5	01/20/22 08:19	01/21/22 00:02	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	<1080	ug/kg	3530	1080	5	01/20/22 08:19	01/21/22 00:02		ED
Naphthalene	<479	ug/kg	1760	479	5	01/20/22 08:19	01/21/22 00:02	91-20-3	ED
2-Nitroaniline	<613	ug/kg	4410	613	5	01/20/22 08:19	01/21/22 00:02	88-74-4	ED
3-Nitroaniline	<1150	ug/kg	4410	1150	5	01/20/22 08:19	01/21/22 00:02	99-09-2	ED
4-Nitroaniline	<2480	ug/kg	4410	2480	5	01/20/22 08:19	01/21/22 00:02	100-01-6	CH,ED, L1
Nitrobenzene	<654	ug/kg	1760	654	5	01/20/22 08:19	01/21/22 00:02	98-95-3	ED
2-Nitrophenol	<701	ug/kg	1760	701	5	01/20/22 08:19	01/21/22 00:02	88-75-5	ED,L1
4-Nitrophenol	<594	ug/kg	1760	594	5	01/20/22 08:19	01/21/22 00:02	100-02-7	CH,ED
N-Nitrosodimethylamine	<303	ug/kg	1760	303	5	01/20/22 08:19	01/21/22 00:02	62-75-9	ED
N-Nitroso-di-n-propylamine	<747	ug/kg	1760	747	5	01/20/22 08:19	01/21/22 00:02	621-64-7	ED
N-Nitrosodiphenylamine	<398	ug/kg	1760	398	5	01/20/22 08:19	01/21/22 00:02	86-30-6	ED
Pentachlorophenol	<2320	ug/kg	4410	2320	5	01/20/22 08:19	01/21/22 00:02	87-86-5	ED
Phenanthrene	<776	ug/kg	1760	776	5	01/20/22 08:19	01/21/22 00:02	85-01-8	ED
Phenol	<523	ug/kg	1760	523	5	01/20/22 08:19	01/21/22 00:02	108-95-2	ED
Pyrene	<645	ug/kg	1760	645	5	01/20/22 08:19	01/21/22 00:02	129-00-0	ED
1,2,4-Trichlorobenzene	<478	ug/kg	1760	478	5	01/20/22 08:19	01/21/22 00:02	120-82-1	ED
2,4,5-Trichlorophenol	<522	ug/kg	4410	522	5	01/20/22 08:19	01/21/22 00:02	95-95-4	ED
2,4,6-Trichlorophenol	<461	ug/kg	1760	461	5	01/20/22 08:19	01/21/22 00:02	88-06-2	ED
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	97	%	41-112		5	01/20/22 08:19	01/21/22 00:02	4165-60-0	
2-Fluorobiphenyl (S)	101	%	49-108		5	01/20/22 08:19	01/21/22 00:02	321-60-8	
Terphenyl-d14 (S)	107	%	43-106		5	01/20/22 08:19	01/21/22 00:02	1718-51-0	ST

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: SB-02 (12-14)**      **Lab ID: 30459395018**      Collected: 01/11/22 14:04      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3546									
Pace Analytical Services - Greensburg									
<b>Surrogates</b>									
Phenol-d6 (S)	100	%	44-112		5	01/20/22 08:19	01/21/22 00:02	13127-88-3	
2-Fluorophenol (S)	102	%	44-113		5	01/20/22 08:19	01/21/22 00:02	367-12-4	
2,4,6-Tribromophenol (S)	90	%	31-133		5	01/20/22 08:19	01/21/22 00:02	118-79-6	
<b>8260C MSV 5035 Low Level</b>									
Analytical Method: EPA 8260C    Preparation Method: EPA 5035A									
Pace Analytical Services - Greensburg									
Acetone	<b>31.3</b>	ug/kg	14.4	4.6	1	01/20/22 12:40	01/20/22 14:59	67-64-1	1c
Benzene	<b>2.2J</b>	ug/kg	7.2	1.3	1	01/20/22 12:40	01/20/22 14:59	71-43-2	1c
Bromochloromethane	<b>&lt;1.6</b>	ug/kg	7.2	1.6	1	01/20/22 12:40	01/20/22 14:59	74-97-5	1c
Bromodichloromethane	<b>&lt;1.6</b>	ug/kg	7.2	1.6	1	01/20/22 12:40	01/20/22 14:59	75-27-4	1c
Bromoform	<b>&lt;0.95</b>	ug/kg	7.2	0.95	1	01/20/22 12:40	01/20/22 14:59	75-25-2	1c,L1
Bromomethane	<b>&lt;2.7</b>	ug/kg	7.2	2.7	1	01/20/22 12:40	01/20/22 14:59	74-83-9	1c
TOTAL BTEX	<b>&lt;8.8</b>	ug/kg	43.2	8.8	1	01/20/22 12:40	01/20/22 14:59		
2-Butanone (MEK)	<b>&lt;1.3</b>	ug/kg	14.4	1.3	1	01/20/22 12:40	01/20/22 14:59	78-93-3	1c
Carbon disulfide	<b>&lt;2.0</b>	ug/kg	7.2	2.0	1	01/20/22 12:40	01/20/22 14:59	75-15-0	1c
Carbon tetrachloride	<b>&lt;2.5</b>	ug/kg	7.2	2.5	1	01/20/22 12:40	01/20/22 14:59	56-23-5	1c
Chlorobenzene	<b>&lt;1.1</b>	ug/kg	7.2	1.1	1	01/20/22 12:40	01/20/22 14:59	108-90-7	1c
Chloroethane	<b>&lt;3.0</b>	ug/kg	7.2	3.0	1	01/20/22 12:40	01/20/22 14:59	75-00-3	1c
Chloroform	<b>&lt;2.2</b>	ug/kg	7.2	2.2	1	01/20/22 12:40	01/20/22 14:59	67-66-3	1c
Chloromethane	<b>&lt;2.4</b>	ug/kg	7.2	2.4	1	01/20/22 12:40	01/20/22 14:59	74-87-3	1c
Dibromochloromethane	<b>&lt;1.1</b>	ug/kg	7.2	1.1	1	01/20/22 12:40	01/20/22 14:59	124-48-1	1c
1,2-Dichlorobenzene	<b>&lt;0.85</b>	ug/kg	7.2	0.85	1	01/20/22 12:40	01/20/22 14:59	95-50-1	1c
1,3-Dichlorobenzene	<b>&lt;0.93</b>	ug/kg	7.2	0.93	1	01/20/22 12:40	01/20/22 14:59	541-73-1	1c
1,4-Dichlorobenzene	<b>&lt;1.0</b>	ug/kg	7.2	1.0	1	01/20/22 12:40	01/20/22 14:59	106-46-7	1c
1,1-Dichloroethane	<b>&lt;1.8</b>	ug/kg	7.2	1.8	1	01/20/22 12:40	01/20/22 14:59	75-34-3	1c
1,2-Dichloroethane	<b>&lt;1.9</b>	ug/kg	7.2	1.9	1	01/20/22 12:40	01/20/22 14:59	107-06-2	1c
1,2-Dichloroethene (Total)	<b>&lt;3.5</b>	ug/kg	14.4	3.5	1	01/20/22 12:40	01/20/22 14:59	540-59-0	
1,1-Dichloroethene	<b>&lt;2.7</b>	ug/kg	7.2	2.7	1	01/20/22 12:40	01/20/22 14:59	75-35-4	1c
cis-1,2-Dichloroethene	<b>&lt;1.7</b>	ug/kg	7.2	1.7	1	01/20/22 12:40	01/20/22 14:59	156-59-2	1c
trans-1,2-Dichloroethene	<b>&lt;1.8</b>	ug/kg	7.2	1.8	1	01/20/22 12:40	01/20/22 14:59	156-60-5	1c
1,2-Dichloropropane	<b>&lt;1.0</b>	ug/kg	7.2	1.0	1	01/20/22 12:40	01/20/22 14:59	78-87-5	1c
cis-1,3-Dichloropropene	<b>&lt;0.72</b>	ug/kg	7.2	0.72	1	01/20/22 12:40	01/20/22 14:59	10061-01-5	1c
trans-1,3-Dichloropropene	<b>&lt;1.5</b>	ug/kg	7.2	1.5	1	01/20/22 12:40	01/20/22 14:59	10061-02-6	1c
Ethylbenzene	<b>&lt;1.6</b>	ug/kg	7.2	1.6	1	01/20/22 12:40	01/20/22 14:59	100-41-4	1c
2-Hexanone	<b>&lt;1.4</b>	ug/kg	14.4	1.4	1	01/20/22 12:40	01/20/22 14:59	591-78-6	1c
Isopropylbenzene (Cumene)	<b>&lt;1.7</b>	ug/kg	7.2	1.7	1	01/20/22 12:40	01/20/22 14:59	98-82-8	1c
Methylene Chloride	<b>&lt;6.0</b>	ug/kg	7.2	6.0	1	01/20/22 12:40	01/20/22 14:59	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	<b>&lt;1.6</b>	ug/kg	14.4	1.6	1	01/20/22 12:40	01/20/22 14:59	108-10-1	1c
Methyl-tert-butyl ether	<b>&lt;0.96</b>	ug/kg	7.2	0.96	1	01/20/22 12:40	01/20/22 14:59	1634-04-4	1c
Naphthalene	<b>&lt;1.4</b>	ug/kg	7.2	1.4	1	01/20/22 12:40	01/20/22 14:59	91-20-3	1c
Styrene	<b>&lt;2.1</b>	ug/kg	7.2	2.1	1	01/20/22 12:40	01/20/22 14:59	100-42-5	1c
1,1,2,2-Tetrachloroethane	<b>&lt;0.85</b>	ug/kg	7.2	0.85	1	01/20/22 12:40	01/20/22 14:59	79-34-5	1c
Tetrachloroethene	<b>&lt;2.5</b>	ug/kg	7.2	2.5	1	01/20/22 12:40	01/20/22 14:59	127-18-4	1c

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

**Sample: SB-02 (12-14)**      **Lab ID: 30459395018**      Collected: 01/11/22 14:04      Received: 01/13/22 14:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV 5035 Low Level</b>									
Analytical Method: EPA 8260C    Preparation Method: EPA 5035A									
Pace Analytical Services - Greensburg									
Toluene	<1.4	ug/kg	7.2	1.4	1	01/20/22 12:40	01/20/22 14:59	108-88-3	1c
1,2,4-Trichlorobenzene	<1.8	ug/kg	7.2	1.8	1	01/20/22 12:40	01/20/22 14:59	120-82-1	1c
1,1,1-Trichloroethane	<2.2	ug/kg	7.2	2.2	1	01/20/22 12:40	01/20/22 14:59	71-55-6	1c
1,1,2-Trichloroethane	<1.4	ug/kg	7.2	1.4	1	01/20/22 12:40	01/20/22 14:59	79-00-5	1c
Trichloroethene	<2.1	ug/kg	7.2	2.1	1	01/20/22 12:40	01/20/22 14:59	79-01-6	1c
1,2,4-Trimethylbenzene	<3.5	ug/kg	7.2	3.5	1	01/20/22 12:40	01/20/22 14:59	95-63-6	1c
1,3,5-Trimethylbenzene	<2.9	ug/kg	7.2	2.9	1	01/20/22 12:40	01/20/22 14:59	108-67-8	1c
Vinyl chloride	<3.1	ug/kg	7.2	3.1	1	01/20/22 12:40	01/20/22 14:59	75-01-4	1c
Xylene (Total)	<4.6	ug/kg	21.6	4.6	1	01/20/22 12:40	01/20/22 14:59	1330-20-7	
m&p-Xylene	<3.0	ug/kg	14.4	3.0	1	01/20/22 12:40	01/20/22 14:59	179601-23-1	1c
o-Xylene	<1.5	ug/kg	7.2	1.5	1	01/20/22 12:40	01/20/22 14:59	95-47-6	1c
<b>Surrogates</b>									
Toluene-d8 (S)	107	%	70-130		1	01/20/22 12:40	01/20/22 14:59	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1	01/20/22 12:40	01/20/22 14:59	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1	01/20/22 12:40	01/20/22 14:59	17060-07-0	
Dibromofluoromethane (S)	98	%	70-130		1	01/20/22 12:40	01/20/22 14:59	1868-53-7	
<b>8260C MSV SPLP</b>									
Analytical Method: EPA 8260C    Leachate Method/Date: EPA 1312; 02/24/22 11:40									
Pace Analytical Services - Greensburg									
Benzene	<8.7	ug/L	50.0	8.7	10		02/25/22 16:23	71-43-2	H2
2-Butanone (MEK)	<9.1	ug/L	100	9.1	10		02/25/22 16:23	78-93-3	H2
Carbon tetrachloride	<17.2	ug/L	50.0	17.2	10		02/25/22 16:23	56-23-5	H2
Chlorobenzene	<7.8	ug/L	50.0	7.8	10		02/25/22 16:23	108-90-7	H2
Chloroform	<15.0	ug/L	50.0	15.0	10		02/25/22 16:23	67-66-3	H2
1,2-Dichloroethane	<12.9	ug/L	50.0	12.9	10		02/25/22 16:23	107-06-2	H2
1,1-Dichloroethene	<18.6	ug/L	50.0	18.6	10		02/25/22 16:23	75-35-4	H2
Tetrachloroethene	<17.3	ug/L	50.0	17.3	10		02/25/22 16:23	127-18-4	H2
Trichloroethene	<14.7	ug/L	50.0	14.7	10		02/25/22 16:23	79-01-6	H2
Vinyl chloride	<21.5	ug/L	50.0	21.5	10		02/25/22 16:23	75-01-4	H2
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	110	%	70-130		10		02/25/22 16:23	17060-07-0	
Toluene-d8 (S)	99	%	70-130		10		02/25/22 16:23	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		10		02/25/22 16:23	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		10		02/25/22 16:23	1868-53-7	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Greensburg									
Percent Moisture	8.5	%	0.10	0.10	1		01/18/22 10:57		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: Trip Blank**      **Lab ID: 30459395019**      Collected: 01/11/22 00:00      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>									
Analytical Method: EPA 8260C									
Pace Analytical Services - Greensburg									
Acetone	<5.6	ug/L	10.0	5.6	1		01/24/22 13:22	67-64-1	2c,CL, L2
Benzene	<0.34	ug/L	1.0	0.34	1		01/24/22 13:22	71-43-2	
Bromochloromethane	<0.48	ug/L	1.0	0.48	1		01/24/22 13:22	74-97-5	
Bromodichloromethane	<0.35	ug/L	1.0	0.35	1		01/24/22 13:22	75-27-4	
Bromoform	<0.56	ug/L	1.0	0.56	1		01/24/22 13:22	75-25-2	CL
Bromomethane	<0.73	ug/L	1.0	0.73	1		01/24/22 13:22	74-83-9	CL
TOTAL BTEX	<2.4	ug/L	6.0	2.4	1		01/24/22 13:22		
2-Butanone (MEK)	<1.5	ug/L	10.0	1.5	1		01/24/22 13:22	78-93-3	
Carbon disulfide	<0.32	ug/L	1.0	0.32	1		01/24/22 13:22	75-15-0	
Carbon tetrachloride	<0.44	ug/L	1.0	0.44	1		01/24/22 13:22	56-23-5	
Chlorobenzene	<0.26	ug/L	1.0	0.26	1		01/24/22 13:22	108-90-7	
Chloroethane	<0.64	ug/L	1.0	0.64	1		01/24/22 13:22	75-00-3	CL
Chloroform	<0.39	ug/L	1.0	0.39	1		01/24/22 13:22	67-66-3	
Chloromethane	<0.40	ug/L	1.0	0.40	1		01/24/22 13:22	74-87-3	
Dibromochloromethane	<0.43	ug/L	1.0	0.43	1		01/24/22 13:22	124-48-1	
1,2-Dichlorobenzene	<0.38	ug/L	1.0	0.38	1		01/24/22 13:22	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		01/24/22 13:22	541-73-1	
1,4-Dichlorobenzene	<0.48	ug/L	1.0	0.48	1		01/24/22 13:22	106-46-7	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/24/22 13:22	75-34-3	
1,2-Dichloroethane	<0.33	ug/L	1.0	0.33	1		01/24/22 13:22	107-06-2	
1,2-Dichloroethene (Total)	<0.66	ug/L	2.0	0.66	1		01/24/22 13:22	540-59-0	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/24/22 13:22	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/L	1.0	0.38	1		01/24/22 13:22	156-59-2	
trans-1,2-Dichloroethene	<0.28	ug/L	1.0	0.28	1		01/24/22 13:22	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/24/22 13:22	78-87-5	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		01/24/22 13:22	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		01/24/22 13:22	10061-02-6	
Ethylbenzene	<0.40	ug/L	1.0	0.40	1		01/24/22 13:22	100-41-4	
2-Hexanone	<0.58	ug/L	10.0	0.58	1		01/24/22 13:22	591-78-6	
Isopropylbenzene (Cumene)	<0.47	ug/L	1.0	0.47	1		01/24/22 13:22	98-82-8	
Methylene Chloride	<0.64	ug/L	1.0	0.64	1		01/24/22 13:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	10.0	0.42	1		01/24/22 13:22	108-10-1	
Methyl-tert-butyl ether	<0.25	ug/L	1.0	0.25	1		01/24/22 13:22	1634-04-4	
Naphthalene	<0.82	ug/L	2.0	0.82	1		01/24/22 13:22	91-20-3	
Styrene	<0.33	ug/L	1.0	0.33	1		01/24/22 13:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.47	ug/L	1.0	0.47	1		01/24/22 13:22	79-34-5	
Tetrachloroethene	<0.39	ug/L	1.0	0.39	1		01/24/22 13:22	127-18-4	
Toluene	<0.32	ug/L	1.0	0.32	1		01/24/22 13:22	108-88-3	
1,2,4-Trichlorobenzene	<0.73	ug/L	1.0	0.73	1		01/24/22 13:22	120-82-1	
1,1,1-Trichloroethane	<0.38	ug/L	1.0	0.38	1		01/24/22 13:22	71-55-6	
1,1,2-Trichloroethane	<0.33	ug/L	1.0	0.33	1		01/24/22 13:22	79-00-5	
Trichloroethene	<0.29	ug/L	1.0	0.29	1		01/24/22 13:22	79-01-6	
1,2,4-Trimethylbenzene	<0.63	ug/L	1.0	0.63	1		01/24/22 13:22	95-63-6	
1,3,5-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		01/24/22 13:22	108-67-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

**Sample: Trip Blank**      **Lab ID: 30459395019**      Collected: 01/11/22 00:00      Received: 01/13/22 14:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>									
Analytical Method: EPA 8260C									
Pace Analytical Services - Greensburg									
Vinyl chloride	<0.29	ug/L	1.0	0.29	1		01/24/22 13:22	75-01-4	
Xylene (Total)	<1.4	ug/L	3.0	1.4	1		01/24/22 13:22	1330-20-7	
m&p-Xylene	1.3J	ug/L	2.0	0.94	1		01/24/22 13:22	179601-23-1	
o-Xylene	<0.41	ug/L	1.0	0.41	1		01/24/22 13:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		01/24/22 13:22	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		01/24/22 13:22	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		01/24/22 13:22	2037-26-5	
Dibromofluoromethane (S)	107	%	70-130		1		01/24/22 13:22	1868-53-7	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 482211 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3050B Analysis Description: BVR 6010D MET ICP,Solid,3050B  
Laboratory: Pace Analytical Services - Beaver  
Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010

METHOD BLANK: 2331059 Matrix: Solid  
Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	<0.55	5.0	0.55	02/09/22 09:07	
Barium	mg/kg	<0.57	5.0	0.57	02/09/22 09:07	
Cadmium	mg/kg	<0.12	1.0	0.12	02/09/22 09:07	
Chromium	mg/kg	<0.58	5.0	0.58	02/09/22 09:07	
Lead	mg/kg	<0.48	5.0	0.48	02/09/22 09:07	
Selenium	mg/kg	<1.1	5.0	1.1	02/09/22 09:07	
Silver	mg/kg	<0.42	2.5	0.42	02/09/22 09:07	

LABORATORY CONTROL SAMPLE: 2331060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	97.6	98	80-120	
Barium	mg/kg	100	104	104	80-120	
Cadmium	mg/kg	50	50.8	102	80-120	
Chromium	mg/kg	100	105	105	80-120	
Lead	mg/kg	100	103	103	80-120	
Selenium	mg/kg	100	89.4	89	80-120	
Silver	mg/kg	25	26.4	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2331061 2331062

Parameter	Units	30461348001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Arsenic	mg/kg	ND	125	124	122	127	92	98	75-125	4	20		
Barium	mg/kg	139	125	124	278	290	111	122	75-125	4	20		
Cadmium	mg/kg	ND	62.5	61.9	58.2	59.7	93	96	75-125	2	20		
Chromium	mg/kg	36.6	125	124	161	161	100	100	75-125	0	20		
Lead	mg/kg	35.5	125	124	156	164	96	104	75-125	5	20		
Selenium	mg/kg	ND	125	124	112	117	88	93	75-125	5	20		
Silver	mg/kg	13.9	31.2	31	46.5	45.7	104	102	75-125	2	20		

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 482411 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3050B Analysis Description: BVR 6010D MET ICP,Solid,3050B  
Laboratory: Pace Analytical Services - Beaver  
Associated Lab Samples: 30459395011, 30459395012, 30459395013, 30459395014, 30459395015, 30459395016, 30459395017, 30459395018

METHOD BLANK: 2331920 Matrix: Solid  
Associated Lab Samples: 30459395011, 30459395012, 30459395013, 30459395014, 30459395015, 30459395016, 30459395017, 30459395018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	<0.55	5.0	0.55	02/09/22 10:21	
Barium	mg/kg	<0.57	5.0	0.57	02/09/22 10:21	
Cadmium	mg/kg	<0.12	1.0	0.12	02/09/22 10:21	
Chromium	mg/kg	<0.58	5.0	0.58	02/09/22 10:21	
Lead	mg/kg	<0.48	5.0	0.48	02/09/22 10:21	
Selenium	mg/kg	<1.1	5.0	1.1	02/09/22 10:21	
Silver	mg/kg	<0.42	2.5	0.42	02/09/22 10:21	

LABORATORY CONTROL SAMPLE: 2331921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	96.4	96	80-120	
Barium	mg/kg	100	101	101	80-120	
Cadmium	mg/kg	50	49.3	99	80-120	
Chromium	mg/kg	100	101	101	80-120	
Lead	mg/kg	100	99.5	99	80-120	
Selenium	mg/kg	100	89.9	90	80-120	
Silver	mg/kg	25	24.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2331922 2331923

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30460926001 Result	Spike Conc.	Spike Conc.	Conc.								
Arsenic	mg/kg	11.2	111	111	121	121	99	99	75-125	0	20		
Barium	mg/kg	80.8	111	111	206	164	112	75	75-125	22	20	R1	
Cadmium	mg/kg	<0.13	55.7	55.7	47.0	47.0	84	84	75-125	0	20		
Chromium	mg/kg	12.7	111	111	123	120	99	96	75-125	2	20		
Lead	mg/kg	5.3J	111	111	111	108	95	92	75-125	3	20		
Selenium	mg/kg	3.3J	111	111	107	107	93	93	75-125	1	20		
Silver	mg/kg	4.3	27.9	27.9	36.4	34.5	115	108	75-125	5	20		

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 481819 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: BVR 6010D MET  
Laboratory: Pace Analytical Services - Beaver  
Associated Lab Samples: 30459395001, 30459395003, 30459395005

METHOD BLANK: 2329279 Matrix: Water  
Associated Lab Samples: 30459395001, 30459395003, 30459395005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	<6.4	20.0	6.4	02/07/22 14:26	
Barium	ug/L	<1.4	5.0	1.4	02/07/22 14:26	
Cadmium	ug/L	<1.8	2.0	1.8	02/07/22 14:26	
Chromium	ug/L	<1.3	5.0	1.3	02/07/22 14:26	
Lead	ug/L	<2.5	10.0	2.5	02/07/22 14:26	
Selenium	ug/L	<9.2	20.0	9.2	02/07/22 14:26	
Silver	ug/L	<2.6	5.0	2.6	02/07/22 14:26	

LABORATORY CONTROL SAMPLE: 2329280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	2000	1910	95	80-120	
Barium	ug/L	2000	2080	104	80-120	
Cadmium	ug/L	1000	981	98	80-120	
Chromium	ug/L	2000	2010	100	80-120	
Lead	ug/L	2000	1990	99	80-120	
Selenium	ug/L	2000	1920	96	80-120	
Silver	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2329281 2329282

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30459395001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	ug/L	<6.4	2000	2000	1920	1920	96	96	80-120	0	20
Barium	ug/L	36.4	2000	2000	2100	2100	103	103	80-120	0	20
Cadmium	ug/L	<1.8	1000	1000	970	967	97	97	80-120	0	20
Chromium	ug/L	1.8J	2000	2000	2000	2000	100	100	80-120	0	20
Lead	ug/L	<2.5	2000	2000	1960	1960	98	98	80-120	0	20
Selenium	ug/L	<9.2	2000	2000	1900	1900	95	95	80-120	0	20
Silver	ug/L	<2.6	500	500	504	503	100	100	80-120	0	20

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 482826 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: BVR 7470 Mercury  
Laboratory: Pace Analytical Services - Beaver  
Associated Lab Samples: 30459395001, 30459395003, 30459395005

METHOD BLANK: 2333890 Matrix: Water  
Associated Lab Samples: 30459395001, 30459395003, 30459395005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	0.20	02/10/22 09:34	

LABORATORY CONTROL SAMPLE: 2333891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	10	9.5	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2333892 2333893

Parameter	Units	30459395001		30459395003		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	ug/L	<0.20	10	10	9.5	9.9	95	99	80-120	4	20 H1

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch:	482555	Analysis Method:	EPA 7471B
QC Batch Method:	EPA 7471B	Analysis Description:	BVR 7471B Mercury
		Laboratory:	Pace Analytical Services - Beaver

Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010, 30459395011, 30459395012, 30459395013, 30459395014, 30459395017, 30459395018

METHOD BLANK: 2332478 Matrix: Solid  
Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010, 30459395011, 30459395012, 30459395013, 30459395014, 30459395017, 30459395018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0094	0.10	0.0094	02/14/22 14:00	

LABORATORY CONTROL SAMPLE: 2332479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.49	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332480 2332481

Parameter	Units	30453579005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.56	0.55	<0.011	<0.010	0	0	80-120		20	H1,M1

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

QC Batch: 483075

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: BVR 7471B Mercury

Laboratory: Pace Analytical Services - Beaver

Associated Lab Samples: 30459395015, 30459395016

METHOD BLANK: 2335357

Matrix: Solid

Associated Lab Samples: 30459395015, 30459395016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0093	0.099	0.0093	02/14/22 15:19	

LABORATORY CONTROL SAMPLE: 2335358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.49	0.52	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2335359 2335360

Parameter	Units	2335359		2335360		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/kg	0.024J	0.59	0.59	0.62	0.63	101	101	80-120	1	20	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 480148 Analysis Method: EPA 8260C  
QC Batch Method: EPA 5035A Analysis Description: 8260C MSV 5035 Low  
Laboratory: Pace Analytical Services - Greensburg  
Associated Lab Samples: 30459395012, 30459395014, 30459395016, 30459395018

METHOD BLANK: 2320068 Matrix: Solid  
Associated Lab Samples: 30459395012, 30459395014, 30459395016, 30459395018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<1.5	5.0	1.5	01/20/22 12:42	
1,1,2,2-Tetrachloroethane	ug/kg	<0.59	5.0	0.59	01/20/22 12:42	
1,1,2-Trichloroethane	ug/kg	<0.99	5.0	0.99	01/20/22 12:42	
1,1-Dichloroethane	ug/kg	<1.3	5.0	1.3	01/20/22 12:42	
1,1-Dichloroethene	ug/kg	<1.9	5.0	1.9	01/20/22 12:42	
1,2,4-Trichlorobenzene	ug/kg	<1.3	5.0	1.3	01/20/22 12:42	
1,2,4-Trimethylbenzene	ug/kg	<2.4	5.0	2.4	01/20/22 12:42	
1,2-Dichlorobenzene	ug/kg	<0.59	5.0	0.59	01/20/22 12:42	
1,2-Dichloroethane	ug/kg	<1.3	5.0	1.3	01/20/22 12:42	
1,2-Dichloroethene (Total)	ug/kg	<2.4	10.0	2.4	01/20/22 12:42	
1,2-Dichloropropane	ug/kg	<0.72	5.0	0.72	01/20/22 12:42	
1,3,5-Trimethylbenzene	ug/kg	<2.0	5.0	2.0	01/20/22 12:42	
1,3-Dichlorobenzene	ug/kg	<0.65	5.0	0.65	01/20/22 12:42	
1,4-Dichlorobenzene	ug/kg	<0.71	5.0	0.71	01/20/22 12:42	
2-Butanone (MEK)	ug/kg	<0.91	10.0	0.91	01/20/22 12:42	
2-Hexanone	ug/kg	<0.98	10.0	0.98	01/20/22 12:42	
4-Methyl-2-pentanone (MIBK)	ug/kg	<1.1	10.0	1.1	01/20/22 12:42	
Acetone	ug/kg	<3.2	10.0	3.2	01/20/22 12:42	
Benzene	ug/kg	<0.87	5.0	0.87	01/20/22 12:42	
Bromochloromethane	ug/kg	<1.1	5.0	1.1	01/20/22 12:42	
Bromodichloromethane	ug/kg	<1.1	5.0	1.1	01/20/22 12:42	
Bromoform	ug/kg	<0.66	5.0	0.66	01/20/22 12:42	
Bromomethane	ug/kg	<1.9	5.0	1.9	01/20/22 12:42	
Carbon disulfide	ug/kg	<1.4	5.0	1.4	01/20/22 12:42	
Carbon tetrachloride	ug/kg	<1.7	5.0	1.7	01/20/22 12:42	
Chlorobenzene	ug/kg	<0.78	5.0	0.78	01/20/22 12:42	
Chloroethane	ug/kg	<2.1	5.0	2.1	01/20/22 12:42	
Chloroform	ug/kg	<1.5	5.0	1.5	01/20/22 12:42	
Chloromethane	ug/kg	<1.7	5.0	1.7	01/20/22 12:42	
cis-1,2-Dichloroethene	ug/kg	<1.2	5.0	1.2	01/20/22 12:42	
cis-1,3-Dichloropropene	ug/kg	<0.50	5.0	0.50	01/20/22 12:42	
Dibromochloromethane	ug/kg	<0.79	5.0	0.79	01/20/22 12:42	
Ethylbenzene	ug/kg	<1.1	5.0	1.1	01/20/22 12:42	
Isopropylbenzene (Cumene)	ug/kg	<1.2	5.0	1.2	01/20/22 12:42	
m&p-Xylene	ug/kg	<2.1	10.0	2.1	01/20/22 12:42	
Methyl-tert-butyl ether	ug/kg	<0.67	5.0	0.67	01/20/22 12:42	
Methylene Chloride	ug/kg	<4.2	5.0	4.2	01/20/22 12:42	
Naphthalene	ug/kg	1.0J	5.0	0.94	01/20/22 12:42	
o-Xylene	ug/kg	<1.1	5.0	1.1	01/20/22 12:42	
Styrene	ug/kg	<1.4	5.0	1.4	01/20/22 12:42	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

METHOD BLANK: 2320068 Matrix: Solid  
Associated Lab Samples: 30459395012, 30459395014, 30459395016, 30459395018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Tetrachloroethene	ug/kg	<1.7	5.0	1.7	01/20/22 12:42	
Toluene	ug/kg	<0.99	5.0	0.99	01/20/22 12:42	
TOTAL BTEX	ug/kg	<6.1	30.0	6.1	01/20/22 12:42	
trans-1,2-Dichloroethene	ug/kg	<1.3	5.0	1.3	01/20/22 12:42	
trans-1,3-Dichloropropene	ug/kg	<1.0	5.0	1.0	01/20/22 12:42	
Trichloroethene	ug/kg	<1.5	5.0	1.5	01/20/22 12:42	
Vinyl chloride	ug/kg	<2.2	5.0	2.2	01/20/22 12:42	
Xylene (Total)	ug/kg	<3.2	15.0	3.2	01/20/22 12:42	
1,2-Dichloroethane-d4 (S)	%	102	70-130		01/20/22 12:42	
4-Bromofluorobenzene (S)	%	99	70-130		01/20/22 12:42	
Dibromofluoromethane (S)	%	104	70-130		01/20/22 12:42	
Toluene-d8 (S)	%	102	70-130		01/20/22 12:42	

LABORATORY CONTROL SAMPLE: 2320069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	15.8	79	62-129	
1,1,2,2-Tetrachloroethane	ug/kg	20	19.2	96	60-108	
1,1,2-Trichloroethane	ug/kg	20	17.3	86	61-114	
1,1-Dichloroethane	ug/kg	20	13.6	68	54-121	
1,1-Dichloroethene	ug/kg	20	12.3	61	49-111	
1,2,4-Trichlorobenzene	ug/kg	20	19.9	100	60-126	
1,2,4-Trimethylbenzene	ug/kg	20	18.9	94	58-126	
1,2-Dichlorobenzene	ug/kg	20	19.8	99	70-130	
1,2-Dichloroethane	ug/kg	20	15.1	75	62-112	
1,2-Dichloroethene (Total)	ug/kg	40	28.1	70	55-114	
1,2-Dichloropropane	ug/kg	20	14.3	71	59-112	
1,3,5-Trimethylbenzene	ug/kg	20	18.9	94	56-124	
1,3-Dichlorobenzene	ug/kg	20	19.1	96	63-122	
1,4-Dichlorobenzene	ug/kg	20	19.0	95	63-117	
2-Butanone (MEK)	ug/kg	20	13.6	68	52-111	
2-Hexanone	ug/kg	20	16.2	81	51-113	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	13.3	67	55-112	
Acetone	ug/kg	20	12.5	63	10-175	
Benzene	ug/kg	20	14.2	71	51-123	
Bromochloromethane	ug/kg	20	15.1	75	62-120	
Bromodichloromethane	ug/kg	20	16.3	81	59-113	
Bromoform	ug/kg	20	19.2	96	50-95 L1	
Bromomethane	ug/kg	20	14.5	72	50-136	
Carbon disulfide	ug/kg	20	14.2	71	44-125	
Carbon tetrachloride	ug/kg	20	14.3	72	53-115	
Chlorobenzene	ug/kg	20	18.0	90	63-119	
Chloroethane	ug/kg	20	15.9	79	13-154	
Chloroform	ug/kg	20	14.5	72	57-115	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

LABORATORY CONTROL SAMPLE: 2320069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/kg	20	13.0	65	57-112	
cis-1,2-Dichloroethene	ug/kg	20	13.9	70	56-114	
cis-1,3-Dichloropropene	ug/kg	20	15.2	76	59-108	
Dibromochloromethane	ug/kg	20	16.7	84	59-102	
Ethylbenzene	ug/kg	20	18.3	92	61-123	
Isopropylbenzene (Cumene)	ug/kg	20	20.6	103	62-136	
m&p-Xylene	ug/kg	40	36.0	90	57-125	
Methyl-tert-butyl ether	ug/kg	20	13.9	70	60-108	
Methylene Chloride	ug/kg	20	16.0	80	20-159	
Naphthalene	ug/kg	20	19.9	100	65-110	
o-Xylene	ug/kg	20	17.5	88	57-125	
Styrene	ug/kg	20	19.1	95	63-119	
Tetrachloroethene	ug/kg	20	16.3	82	57-124	
Toluene	ug/kg	20	17.0	85	56-120	
TOTAL BTEX	ug/kg	120	103	86	51-123	
trans-1,2-Dichloroethene	ug/kg	20	14.1	71	53-115	
trans-1,3-Dichloropropene	ug/kg	20	18.2	91	60-107	
Trichloroethene	ug/kg	20	17.3	86	61-115	
Vinyl chloride	ug/kg	20	14.1	70	61-120	
Xylene (Total)	ug/kg	60	53.5	89	57-125	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			103	70-130	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 486480 Analysis Method: EPA 8260C  
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV SPLP  
Laboratory: Pace Analytical Services - Greensburg  
Associated Lab Samples: 30459395012, 30459395014, 30459395016, 30459395018

METHOD BLANK: 2351227 Matrix: Solid  
Associated Lab Samples: 30459395012, 30459395014, 30459395016, 30459395018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<18.6	50.0	18.6	02/25/22 13:23	
1,2-Dichloroethane	ug/L	<12.9	50.0	12.9	02/25/22 13:23	
2-Butanone (MEK)	ug/L	<9.1	100	9.1	02/25/22 13:23	
Benzene	ug/L	<8.7	50.0	8.7	02/25/22 13:23	
Carbon tetrachloride	ug/L	<17.2	50.0	17.2	02/25/22 13:23	
Chlorobenzene	ug/L	<7.8	50.0	7.8	02/25/22 13:23	
Chloroform	ug/L	<15.0	50.0	15.0	02/25/22 13:23	
Tetrachloroethene	ug/L	<17.3	50.0	17.3	02/25/22 13:23	
Trichloroethene	ug/L	<14.7	50.0	14.7	02/25/22 13:23	
Vinyl chloride	ug/L	<21.5	50.0	21.5	02/25/22 13:23	
1,2-Dichloroethane-d4 (S)	%	110	70-130		02/25/22 13:23	
4-Bromofluorobenzene (S)	%	100	70-130		02/25/22 13:23	
Dibromofluoromethane (S)	%	103	70-130		02/25/22 13:23	
Toluene-d8 (S)	%	100	70-130		02/25/22 13:23	

LABORATORY CONTROL SAMPLE: 2352812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	15.6	78	49-111	
1,2-Dichloroethane	ug/L	20	17.2	86	62-112	
2-Butanone (MEK)	ug/L	20	15.8	79	52-111	
Benzene	ug/L	20	16.5	82	51-123	
Carbon tetrachloride	ug/L	20	15.4	77	53-115	
Chlorobenzene	ug/L	20	16.0	80	63-119	
Chloroform	ug/L	20	16.0	80	57-115	
Tetrachloroethene	ug/L	20	16.4	82	57-124	
Trichloroethene	ug/L	20	16.8	84	61-115	
Vinyl chloride	ug/L	20	15.9	79	61-120	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			104	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2352810		2352811		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30459395012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1-Dichloroethene	ug/L	<18.6	200	200	191	199	95	99	10-112	4	30		
1,2-Dichloroethane	ug/L	<12.9	200	200	197	199	98	100	32-111	1	30		
2-Butanone (MEK)	ug/L	<9.1	200	200	170	188	85	94	10-153	10	30		
Benzene	ug/L	<8.7	200	200	199	201	100	101	29-120	1	30		
Carbon tetrachloride	ug/L	<17.2	200	200	187	187	93	93	27-118	0	30		
Chlorobenzene	ug/L	<7.8	200	200	198	201	99	100	10-139	1	30		
Chloroform	ug/L	<15.0	200	200	199	197	100	99	31-118	1	30		
Tetrachloroethene	ug/L	<17.3	200	200	216	206	108	103	10-144	5	30		
Trichloroethene	ug/L	<14.7	200	200	208	204	104	102	10-170	2	30		
Vinyl chloride	ug/L	<21.5	200	200	193	188	96	94	10-175	2	30		
1,2-Dichloroethane-d4 (S)	%						105	109	70-130				
4-Bromofluorobenzene (S)	%						101	97	70-130				
Dibromofluoromethane (S)	%						102	104	70-130				
Toluene-d8 (S)	%						101	100	70-130				

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 480492      Analysis Method: EPA 8260C  
QC Batch Method: EPA 8260C      Analysis Description: 8260C MSV  
Laboratory: Pace Analytical Services - Greensburg  
Associated Lab Samples: 30459395001, 30459395003, 30459395005, 30459395019

METHOD BLANK: 2321820      Matrix: Water  
Associated Lab Samples: 30459395001, 30459395003, 30459395005, 30459395019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.38	1.0	0.38	01/24/22 12:32	
1,1,2,2-Tetrachloroethane	ug/L	<0.47	1.0	0.47	01/24/22 12:32	
1,1,2-Trichloroethane	ug/L	<0.33	1.0	0.33	01/24/22 12:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	0.24	01/24/22 12:32	
1,1-Dichloroethene	ug/L	<0.24	1.0	0.24	01/24/22 12:32	
1,2,4-Trichlorobenzene	ug/L	<0.73	1.0	0.73	01/24/22 12:32	
1,2,4-Trimethylbenzene	ug/L	<0.63	1.0	0.63	01/24/22 12:32	
1,2-Dichlorobenzene	ug/L	<0.38	1.0	0.38	01/24/22 12:32	
1,2-Dichloroethane	ug/L	<0.33	1.0	0.33	01/24/22 12:32	
1,2-Dichloroethene (Total)	ug/L	<0.66	2.0	0.66	01/24/22 12:32	
1,2-Dichloropropane	ug/L	<0.28	1.0	0.28	01/24/22 12:32	
1,3,5-Trimethylbenzene	ug/L	<0.45	1.0	0.45	01/24/22 12:32	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	0.45	01/24/22 12:32	
1,4-Dichlorobenzene	ug/L	<0.48	1.0	0.48	01/24/22 12:32	
2-Butanone (MEK)	ug/L	<1.5	10.0	1.5	01/24/22 12:32	
2-Hexanone	ug/L	<0.58	10.0	0.58	01/24/22 12:32	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.42	10.0	0.42	01/24/22 12:32	
Acetone	ug/L	<5.6	10.0	5.6	01/24/22 12:32	2c,CL
Benzene	ug/L	<0.34	1.0	0.34	01/24/22 12:32	
Bromochloromethane	ug/L	<0.48	1.0	0.48	01/24/22 12:32	
Bromodichloromethane	ug/L	<0.35	1.0	0.35	01/24/22 12:32	
Bromoform	ug/L	<0.56	1.0	0.56	01/24/22 12:32	CL
Bromomethane	ug/L	<0.73	1.0	0.73	01/24/22 12:32	CL
Carbon disulfide	ug/L	<0.32	1.0	0.32	01/24/22 12:32	
Carbon tetrachloride	ug/L	<0.44	1.0	0.44	01/24/22 12:32	
Chlorobenzene	ug/L	<0.26	1.0	0.26	01/24/22 12:32	
Chloroethane	ug/L	<0.64	1.0	0.64	01/24/22 12:32	CL
Chloroform	ug/L	<0.39	1.0	0.39	01/24/22 12:32	
Chloromethane	ug/L	<0.40	1.0	0.40	01/24/22 12:32	
cis-1,2-Dichloroethene	ug/L	<0.38	1.0	0.38	01/24/22 12:32	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	0.29	01/24/22 12:32	
Dibromochloromethane	ug/L	<0.43	1.0	0.43	01/24/22 12:32	
Ethylbenzene	ug/L	<0.40	1.0	0.40	01/24/22 12:32	
Isopropylbenzene (Cumene)	ug/L	<0.47	1.0	0.47	01/24/22 12:32	
m&p-Xylene	ug/L	<0.94	2.0	0.94	01/24/22 12:32	
Methyl-tert-butyl ether	ug/L	<0.25	1.0	0.25	01/24/22 12:32	
Methylene Chloride	ug/L	<0.64	1.0	0.64	01/24/22 12:32	
Naphthalene	ug/L	<0.82	2.0	0.82	01/24/22 12:32	
o-Xylene	ug/L	<0.41	1.0	0.41	01/24/22 12:32	
Styrene	ug/L	<0.33	1.0	0.33	01/24/22 12:32	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

METHOD BLANK: 2321820 Matrix: Water  
Associated Lab Samples: 30459395001, 30459395003, 30459395005, 30459395019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Tetrachloroethene	ug/L	<0.39	1.0	0.39	01/24/22 12:32	
Toluene	ug/L	<0.32	1.0	0.32	01/24/22 12:32	
TOTAL BTEX	ug/L	<2.4	6.0	2.4	01/24/22 12:32	
trans-1,2-Dichloroethene	ug/L	<0.28	1.0	0.28	01/24/22 12:32	
trans-1,3-Dichloropropene	ug/L	<0.32	1.0	0.32	01/24/22 12:32	
Trichloroethene	ug/L	<0.29	1.0	0.29	01/24/22 12:32	
Vinyl chloride	ug/L	<0.29	1.0	0.29	01/24/22 12:32	
Xylene (Total)	ug/L	<1.4	3.0	1.4	01/24/22 12:32	
1,2-Dichloroethane-d4 (S)	%	94	70-130		01/24/22 12:32	
4-Bromofluorobenzene (S)	%	103	70-130		01/24/22 12:32	
Dibromofluoromethane (S)	%	107	70-130		01/24/22 12:32	
Toluene-d8 (S)	%	97	70-130		01/24/22 12:32	

LABORATORY CONTROL SAMPLE: 2321821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.9	110	70-130	
1,1,2-Trichloroethane	ug/L	20	22.2	111	70-130	
1,1-Dichloroethane	ug/L	20	17.9	89	70-130	
1,1-Dichloroethene	ug/L	20	15.0	75	70-130	
1,2,4-Trichlorobenzene	ug/L	20	23.9	119	70-130	
1,2,4-Trimethylbenzene	ug/L	20	21.0	105	70-130	
1,2-Dichlorobenzene	ug/L	20	23.2	116	70-130	
1,2-Dichloroethane	ug/L	20	17.8	89	70-130	
1,2-Dichloroethene (Total)	ug/L	40	32.6	82	70-130	
1,2-Dichloropropane	ug/L	20	19.1	96	70-130	
1,3,5-Trimethylbenzene	ug/L	20	20.8	104	70-130	
1,3-Dichlorobenzene	ug/L	20	22.4	112	70-130	
1,4-Dichlorobenzene	ug/L	20	21.6	108	70-130	
2-Butanone (MEK)	ug/L	20	16.2	81	70-130	
2-Hexanone	ug/L	20	16.7	84	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.6	83	70-130	
Acetone	ug/L	20	9.6J	48	67-173	2c,CL,L2
Benzene	ug/L	20	19.3	97	70-130	
Bromochloromethane	ug/L	20	19.2	96	70-130	
Bromodichloromethane	ug/L	20	20.0	100	70-130	
Bromoform	ug/L	20	19.1	96	63-119	CL
Bromomethane	ug/L	20	13.9	70	24-159	CL
Carbon disulfide	ug/L	20	19.2	96	57-132	
Carbon tetrachloride	ug/L	20	17.9	90	70-130	
Chlorobenzene	ug/L	20	21.4	107	70-130	
Chloroethane	ug/L	20	14.9	74	62-145	CL
Chloroform	ug/L	20	18.3	91	70-130	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

LABORATORY CONTROL SAMPLE: 2321821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.3	81	66-140	
cis-1,2-Dichloroethene	ug/L	20	16.0	80	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.2	101	70-130	
Dibromochloromethane	ug/L	20	20.4	102	70-130	
Ethylbenzene	ug/L	20	21.2	106	70-130	
Isopropylbenzene (Cumene)	ug/L	20	22.3	112	70-130	
m&p-Xylene	ug/L	40	39.4	99	70-130	
Methyl-tert-butyl ether	ug/L	20	19.4	97	70-130	
Methylene Chloride	ug/L	20	17.4	87	70-130	
Naphthalene	ug/L	20	20.5	103	55-160	
o-Xylene	ug/L	20	21.2	106	70-130	
Styrene	ug/L	20	20.2	101	70-130	
Tetrachloroethene	ug/L	20	22.1	111	70-130	
Toluene	ug/L	20	19.8	99	70-130	
TOTAL BTEX	ug/L	120	121	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.6	83	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.3	102	70-130	
Trichloroethene	ug/L	20	20.1	100	70-130	
Vinyl chloride	ug/L	20	18.7	94	70-130	
Xylene (Total)	ug/L	60	60.7	101	70-130	
1,2-Dichloroethane-d4 (S)	%			84	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2321822 2321823

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30459395005	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.38	20	20	20	16.7	17.6	83	88	55-146	5	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.47	20	20	20	18.1	17.4	90	87	55-118	4	30	
1,1,2-Trichloroethane	ug/L	<0.33	20	20	20	18.5	18.5	93	92	61-122	0	30	
1,1-Dichloroethane	ug/L	<0.24	20	20	20	14.7	16.3	73	81	59-130	10	30	
1,1-Dichloroethene	ug/L	<0.24	20	20	20	12.6	14.0	63	70	52-119	11	30	
1,2,4-Trichlorobenzene	ug/L	<0.73	20	20	20	20.2	20.1	101	101	38-146	1	30	
1,2,4-Trimethylbenzene	ug/L	<0.63	20	20	20	18.3	18.2	92	91	52-151	1	30	
1,2-Dichlorobenzene	ug/L	<0.38	20	20	20	18.0	18.2	90	91	58-126	1	30	
1,2-Dichloroethane	ug/L	<0.33	20	20	20	13.5	14.1	68	70	49-135	4	30	
1,2-Dichloroethene (Total)	ug/L	<0.66	40	40	40	27.8	29.7	69	74	61-119	7	30	
1,2-Dichloropropane	ug/L	<0.28	20	20	20	16.4	16.8	82	84	67-121	3	30	
1,3,5-Trimethylbenzene	ug/L	<0.45	20	20	20	17.6	18.1	88	90	53-142	2	30	
1,3-Dichlorobenzene	ug/L	<0.45	20	20	20	17.4	18.5	87	92	56-130	6	30	
1,4-Dichlorobenzene	ug/L	<0.48	20	20	20	16.9	17.1	85	85	60-121	1	30	
2-Butanone (MEK)	ug/L	<1.5	20	20	20	12.4	13.9	62	70	59-138	12	30	
2-Hexanone	ug/L	<0.58	20	20	20	14.2	13.5	71	67	66-123	5	30	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2321822		2321823		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		30459395005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
4-Methyl-2-pentanone (MIBK)	ug/L	<0.42	20	20	13.7	12.6	69	63	70-130	9	30	ML	
Acetone	ug/L	<5.6	20	20	7.0J	6.1J	35	31	57-140		30	2c, CL, ML	
Benzene	ug/L	<0.34	20	20	16.6	17.5	83	88	50-149	5	30		
Bromochloromethane	ug/L	<0.48	20	20	16.0	16.7	80	84	63-120	4	30		
Bromodichloromethane	ug/L	<0.35	20	20	16.5	16.5	82	83	46-131	0	30		
Bromoform	ug/L	<0.56	20	20	14.9	14.2	74	71	30-119	5	30	CL	
Bromomethane	ug/L	<0.73	20	20	9.4	11.3	46	55	10-163	19	30	CL	
Carbon disulfide	ug/L	<0.32	20	20	15.5	14.8	78	74	41-116	5	30		
Carbon tetrachloride	ug/L	<0.44	20	20	16.9	16.2	84	81	55-119	4	30		
Chlorobenzene	ug/L	<0.26	20	20	17.4	18.1	87	91	66-124	4	30		
Chloroethane	ug/L	<0.64	20	20	13.6	14.0	68	70	45-162	3	30	CL	
Chloroform	ug/L	<0.39	20	20	14.7	15.6	74	78	56-123	6	30		
Chloromethane	ug/L	<0.40	20	20	14.3	14.7	71	73	49-150	3	30		
cis-1,2-Dichloroethene	ug/L	<0.38	20	20	13.4	14.6	67	73	63-116	9	30		
cis-1,3-Dichloropropene	ug/L	<0.29	20	20	16.2	16.9	81	85	46-119	4	30		
Dibromochloromethane	ug/L	<0.43	20	20	15.9	15.6	80	78	42-120	2	30		
Ethylbenzene	ug/L	<0.40	20	20	17.3	18.6	86	93	63-135	7	30		
Isopropylbenzene (Cumene)	ug/L	<0.47	20	20	19.4	20.4	97	102	50-167	5	30		
m&p-Xylene	ug/L	<0.94	40	40	32.6	34.6	82	86	63-135	6	30		
Methyl-tert-butyl ether	ug/L	<0.25	20	20	16.3	14.7	81	73	53-123	10	30		
Methylene Chloride	ug/L	<0.64	20	20	13.0	13.8	65	69	57-132	6	30		
Naphthalene	ug/L	<0.82	20	20	19.3	17.8	97	89	30-157	8	30		
o-Xylene	ug/L	<0.41	20	20	17.9	18.9	89	94	57-133	5	30		
Styrene	ug/L	<0.33	20	20	16.6	17.2	83	86	58-130	4	30		
Tetrachloroethene	ug/L	<0.39	20	20	17.8	19.5	89	97	61-132	9	30		
Toluene	ug/L	<0.32	20	20	16.5	17.6	82	88	59-139	7	30		
TOTAL BTEX	ug/L	<2.4	120	120	101	107	84	89	50-149	6	30		
trans-1,2-Dichloroethene	ug/L	<0.28	20	20	14.3	15.0	72	75	60-124	5	30		
trans-1,3-Dichloropropene	ug/L	<0.32	20	20	16.7	17.2	84	86	48-121	3	30		
Trichloroethene	ug/L	<0.29	20	20	16.5	17.3	82	86	63-128	5	30		
Vinyl chloride	ug/L	<0.29	20	20	16.8	17.7	84	88	67-141	5	30		
Xylene (Total)	ug/L	<1.4	60	60	50.5	53.4	84	89	63-135	6	30		
1,2-Dichloroethane-d4 (S)	%						78	84	70-130				
4-Bromofluorobenzene (S)	%						105	102	70-130				
Dibromofluoromethane (S)	%						91	93	70-130				
Toluene-d8 (S)	%						100	102	70-130				

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 486355 Analysis Method: EPA 8082A  
QC Batch Method: EPA 3546 Analysis Description: 8082A GCS PCB  
Laboratory: Pace Analytical Services - Greensburg  
Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010, 30459395011, 30459395012, 30459395013, 30459395014, 30459395015, 30459395016, 30459395017, 30459395018

METHOD BLANK: 2352062 Matrix: Solid  
Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010, 30459395011, 30459395012, 30459395013, 30459395014, 30459395015, 30459395016, 30459395017, 30459395018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<10.2	16.5	10.2	02/28/22 13:10	
PCB-1221 (Aroclor 1221)	ug/kg	<14.6	16.5	14.6	02/28/22 13:10	
PCB-1232 (Aroclor 1232)	ug/kg	<15.0	16.5	15.0	02/28/22 13:10	
PCB-1242 (Aroclor 1242)	ug/kg	<12.0	16.5	12.0	02/28/22 13:10	
PCB-1248 (Aroclor 1248)	ug/kg	<9.5	16.5	9.5	02/28/22 13:10	
PCB-1254 (Aroclor 1254)	ug/kg	<8.8	16.5	8.8	02/28/22 13:10	
PCB-1260 (Aroclor 1260)	ug/kg	<9.4	16.5	9.4	02/28/22 13:10	
Decachlorobiphenyl (S)	%	99	41-148		02/28/22 13:10	
Tetrachloro-m-xylene (S)	%	70	46-120		02/28/22 13:10	

LABORATORY CONTROL SAMPLE: 2352063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	166	138	83	49-120	
PCB-1260 (Aroclor 1260)	ug/kg	166	143	86	57-120	
Decachlorobiphenyl (S)	%			98	41-148	
Tetrachloro-m-xylene (S)	%			73	46-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2352639 2352640

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		30459395008 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
PCB-1016 (Aroclor 1016)	ug/kg	<148	238	238	260	261	109	110	24-137	0	25	ED	
PCB-1260 (Aroclor 1260)	ug/kg	<136	238	238	357	434	150	183	19-156	20	25	ED, MH	
Decachlorobiphenyl (S)	%						124	132	41-148			CH	
Tetrachloro-m-xylene (S)	%						81	81	46-120				

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 480094 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave  
Laboratory: Pace Analytical Services - Greensburg  
Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010, 30459395011, 30459395012, 30459395013, 30459395014, 30459395015, 30459395016, 30459395017, 30459395018

METHOD BLANK: 2319793 Matrix: Solid  
Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010, 30459395011, 30459395012, 30459395013, 30459395014, 30459395015, 30459395016, 30459395017, 30459395018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<89.7	332	89.7	01/20/22 16:06	
1,2-Dichlorobenzene	ug/kg	<104	332	104	01/20/22 16:06	
1,3-Dichlorobenzene	ug/kg	<98.2	332	98.2	01/20/22 16:06	
1,4-Dichlorobenzene	ug/kg	<45.8	332	45.8	01/20/22 16:06	
1-Methylnaphthalene	ug/kg	<83.4	332	83.4	01/20/22 16:06	
2,4,5-Trichlorophenol	ug/kg	<98.1	830	98.1	01/20/22 16:06	
2,4,6-Trichlorophenol	ug/kg	<86.7	332	86.7	01/20/22 16:06	
2,4-Dichlorophenol	ug/kg	<149	332	149	01/20/22 16:06	
2,4-Dimethylphenol	ug/kg	<101	332	101	01/20/22 16:06	
2,4-Dinitrophenol	ug/kg	<746	830	746	01/20/22 16:06	CH
2,4-Dinitrotoluene	ug/kg	<101	332	101	01/20/22 16:06	
2,6-Dinitrotoluene	ug/kg	<101	332	101	01/20/22 16:06	
2-Chloronaphthalene	ug/kg	<94.7	332	94.7	01/20/22 16:06	
2-Chlorophenol	ug/kg	<103	332	103	01/20/22 16:06	
2-Methylnaphthalene	ug/kg	<99.7	332	99.7	01/20/22 16:06	
2-Methylphenol(o-Cresol)	ug/kg	<119	332	119	01/20/22 16:06	
2-Nitroaniline	ug/kg	<115	830	115	01/20/22 16:06	
2-Nitrophenol	ug/kg	<132	332	132	01/20/22 16:06	
3&4-Methylphenol(m&p Cresol)	ug/kg	<204	663	204	01/20/22 16:06	
3,3'-Dichlorobenzidine	ug/kg	<97.4	332	97.4	01/20/22 16:06	
3-Nitroaniline	ug/kg	<217	830	217	01/20/22 16:06	
4,6-Dinitro-2-methylphenol	ug/kg	<247	830	247	01/20/22 16:06	
4-Bromophenylphenyl ether	ug/kg	<122	332	122	01/20/22 16:06	
4-Chloro-3-methylphenol	ug/kg	<53.4	332	53.4	01/20/22 16:06	
4-Chloroaniline	ug/kg	<58.4	332	58.4	01/20/22 16:06	
4-Chlorophenylphenyl ether	ug/kg	<95.9	332	95.9	01/20/22 16:06	
4-Nitroaniline	ug/kg	<466	830	466	01/20/22 16:06	CH
4-Nitrophenol	ug/kg	<112	332	112	01/20/22 16:06	CH
Acenaphthene	ug/kg	<113	332	113	01/20/22 16:06	
Acenaphthylene	ug/kg	<99.6	332	99.6	01/20/22 16:06	
Anthracene	ug/kg	<76.2	332	76.2	01/20/22 16:06	
Azobenzene	ug/kg	<117	332	117	01/20/22 16:06	
Benzo(a)anthracene	ug/kg	<149	332	149	01/20/22 16:06	
Benzo(a)pyrene	ug/kg	<103	332	103	01/20/22 16:06	
Benzo(b)fluoranthene	ug/kg	<101	332	101	01/20/22 16:06	
Benzo(g,h,i)perylene	ug/kg	<115	332	115	01/20/22 16:06	
Benzo(k)fluoranthene	ug/kg	<147	332	147	01/20/22 16:06	
Benzoic acid	ug/kg	<1680	4980	1680	01/20/22 16:06	CH
Benzyl alcohol	ug/kg	<293	332	293	01/20/22 16:06	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

METHOD BLANK: 2319793

Matrix: Solid

Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010, 30459395011, 30459395012, 30459395013, 30459395014, 30459395015, 30459395016, 30459395017, 30459395018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	<131	332	131	01/20/22 16:06	
bis(2-Chloroethyl) ether	ug/kg	<60.6	332	60.6	01/20/22 16:06	
bis(2-Chloroisopropyl) ether	ug/kg	<281	332	281	01/20/22 16:06	
bis(2-Ethylhexyl)phthalate	ug/kg	<106	332	106	01/20/22 16:06	
Butylbenzylphthalate	ug/kg	<93.2	332	93.2	01/20/22 16:06	
Carbazole	ug/kg	<130	332	130	01/20/22 16:06	
Chrysene	ug/kg	<123	332	123	01/20/22 16:06	
Di-n-butylphthalate	ug/kg	<112	332	112	01/20/22 16:06	
Di-n-octylphthalate	ug/kg	<75.3	332	75.3	01/20/22 16:06	
Dibenz(a,h)anthracene	ug/kg	<126	332	126	01/20/22 16:06	
Dibenzofuran	ug/kg	<106	332	106	01/20/22 16:06	
Diethylphthalate	ug/kg	<117	332	117	01/20/22 16:06	
Dimethylphthalate	ug/kg	<102	332	102	01/20/22 16:06	
Fluoranthene	ug/kg	<107	332	107	01/20/22 16:06	
Fluorene	ug/kg	<102	332	102	01/20/22 16:06	
Hexachloro-1,3-butadiene	ug/kg	<108	332	108	01/20/22 16:06	
Hexachlorobenzene	ug/kg	<95.3	332	95.3	01/20/22 16:06	
Hexachlorocyclopentadiene	ug/kg	<78.5	332	78.5	01/20/22 16:06	
Hexachloroethane	ug/kg	<89.5	332	89.5	01/20/22 16:06	
Indeno(1,2,3-cd)pyrene	ug/kg	<125	332	125	01/20/22 16:06	
Isophorone	ug/kg	<109	332	109	01/20/22 16:06	
N-Nitroso-di-n-propylamine	ug/kg	<140	332	140	01/20/22 16:06	
N-Nitrosodimethylamine	ug/kg	<56.9	332	56.9	01/20/22 16:06	
N-Nitrosodiphenylamine	ug/kg	<74.8	332	74.8	01/20/22 16:06	
Naphthalene	ug/kg	<89.9	332	89.9	01/20/22 16:06	
Nitrobenzene	ug/kg	<123	332	123	01/20/22 16:06	
Pentachlorophenol	ug/kg	<437	830	437	01/20/22 16:06	
Phenanthrene	ug/kg	<146	332	146	01/20/22 16:06	
Phenol	ug/kg	<98.3	332	98.3	01/20/22 16:06	
Pyrene	ug/kg	<121	332	121	01/20/22 16:06	
2,4,6-Tribromophenol (S)	%	93	31-133		01/20/22 16:06	
2-Fluorobiphenyl (S)	%	107	49-108		01/20/22 16:06	
2-Fluorophenol (S)	%	106	44-113		01/20/22 16:06	
Nitrobenzene-d5 (S)	%	105	41-112		01/20/22 16:06	
Phenol-d6 (S)	%	106	44-112		01/20/22 16:06	
Terphenyl-d14 (S)	%	116	43-106		01/20/22 16:06	ST

LABORATORY CONTROL SAMPLE: 2319794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3320	3320	100	61-105	
1,2-Dichlorobenzene	ug/kg	3320	3240	98	64-106	
1,3-Dichlorobenzene	ug/kg	3320	3270	98	66-104	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

LABORATORY CONTROL SAMPLE: 2319794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/kg	3320	3120	94	57-104	
1-Methylnaphthalene	ug/kg	3320	3390	102	59-109	
2,4,5-Trichlorophenol	ug/kg	3320	3680	111	67-121	
2,4,6-Trichlorophenol	ug/kg	3320	3820	115	64-138	
2,4-Dichlorophenol	ug/kg	3320	3620	109	62-112	
2,4-Dimethylphenol	ug/kg	3320	3580	108	40-125	
2,4-Dinitrophenol	ug/kg	3320	4240	128	37-145	CH
2,4-Dinitrotoluene	ug/kg	3320	4180	126	66-130	
2,6-Dinitrotoluene	ug/kg	3320	3560	107	65-123	
2-Chloronaphthalene	ug/kg	3320	3430	103	68-112	
2-Chlorophenol	ug/kg	3320	3510	106	67-111	
2-Methylnaphthalene	ug/kg	3320	3220	97	58-112	
2-Methylphenol(o-Cresol)	ug/kg	3320	3340	101	68-115	
2-Nitroaniline	ug/kg	3320	4140	125	67-129	
2-Nitrophenol	ug/kg	3320	3910	118	62-114	L1
3&4-Methylphenol(m&p Cresol)	ug/kg	6640	7460	112	69-114	E
3,3'-Dichlorobenzidine	ug/kg	3320	3290	99	53-119	
3-Nitroaniline	ug/kg	3320	3420	103	60-119	
4,6-Dinitro-2-methylphenol	ug/kg	3320	4710	142	61-141	L1
4-Bromophenylphenyl ether	ug/kg	3320	3590	108	69-123	
4-Chloro-3-methylphenol	ug/kg	3320	3580	108	61-118	
4-Chloroaniline	ug/kg	3320	2750	83	29-105	
4-Chlorophenylphenyl ether	ug/kg	3320	3430	103	65-123	
4-Nitroaniline	ug/kg	3320	4870	147	51-144	CH,L1
4-Nitrophenol	ug/kg	3320	4360	131	66-138	CH
Acenaphthene	ug/kg	3320	3470	105	67-115	
Acenaphthylene	ug/kg	3320	3290	99	67-115	
Anthracene	ug/kg	3320	3660	110	68-114	
Azobenzene	ug/kg	3320	3580	108	65-122	
Benzo(a)anthracene	ug/kg	3320	3640	109	69-127	
Benzo(a)pyrene	ug/kg	3320	3600	108	66-120	
Benzo(b)fluoranthene	ug/kg	3320	3760	113	66-130	
Benzo(g,h,i)perylene	ug/kg	3320	3350	101	58-144	
Benzo(k)fluoranthene	ug/kg	3320	3550	107	63-129	
Benzoic acid	ug/kg	3320	5010	151	26-137	CH,L1
Benzyl alcohol	ug/kg	3320	3710	112	60-118	
bis(2-Chloroethoxy)methane	ug/kg	3320	3490	105	61-108	
bis(2-Chloroethyl) ether	ug/kg	3320	3230	97	63-105	
bis(2-Chloroisopropyl) ether	ug/kg	3320	3320	100	61-113	
bis(2-Ethylhexyl)phthalate	ug/kg	3320	3680	111	62-142	
Butylbenzylphthalate	ug/kg	3320	3740	113	66-144	
Carbazole	ug/kg	3320	3510	106	63-115	
Chrysene	ug/kg	3320	3430	103	69-119	
Di-n-butylphthalate	ug/kg	3320	3770	113	70-128	
Di-n-octylphthalate	ug/kg	3320	3930	118	63-145	
Dibenz(a,h)anthracene	ug/kg	3320	3500	105	65-140	
Dibenzofuran	ug/kg	3320	3610	109	69-117	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

LABORATORY CONTROL SAMPLE: 2319794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diethylphthalate	ug/kg	3320	3350	101	70-130	
Dimethylphthalate	ug/kg	3320	3340	101	62-126	
Fluoranthene	ug/kg	3320	3680	111	68-126	
Fluorene	ug/kg	3320	3590	108	66-120	
Hexachloro-1,3-butadiene	ug/kg	3320	3340	100	62-108	
Hexachlorobenzene	ug/kg	3320	3710	112	69-123	
Hexachlorocyclopentadiene	ug/kg	3320	4040	122	10-131	
Hexachloroethane	ug/kg	3320	3210	97	64-107	
Indeno(1,2,3-cd)pyrene	ug/kg	3320	3290	99	64-139	
Isophorone	ug/kg	3320	3420	103	55-110	
N-Nitroso-di-n-propylamine	ug/kg	3320	3460	104	67-113	
N-Nitrosodimethylamine	ug/kg	3320	3220	97	60-122	
N-Nitrosodiphenylamine	ug/kg	3320	3530	106	50-117	
Naphthalene	ug/kg	3320	3330	100	59-109	
Nitrobenzene	ug/kg	3320	3530	106	56-112	
Pentachlorophenol	ug/kg	3320	4760	143	65-151	
Phenanthrene	ug/kg	3320	3650	110	66-128	
Phenol	ug/kg	3320	3590	108	67-114	
Pyrene	ug/kg	3320	3370	102	61-131	
2,4,6-Tribromophenol (S)	%			109	31-133	
2-Fluorobiphenyl (S)	%			103	49-108	
2-Fluorophenol (S)	%			102	44-113	
Nitrobenzene-d5 (S)	%			105	41-112	
Phenol-d6 (S)	%			103	44-112	
Terphenyl-d14 (S)	%			104	43-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2319795 2319796

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30459395002	Spike Conc.	Spike Conc.	Result								
1,2,4-Trichlorobenzene	ug/kg	<1530	5780	5770	5980	5820	103	101	58-102	3	25	MH	
1,2-Dichlorobenzene	ug/kg	<1770	5780	5770	6290	5920	109	103	49-103	6	25	MH	
1,3-Dichlorobenzene	ug/kg	<1670	5780	5770	6160	6010	106	104	52-100	2	25	MH	
1,4-Dichlorobenzene	ug/kg	<781	5780	5770	6170	5420J	107	94	45-99		25	MH	
1-Methylnaphthalene	ug/kg	<1420	5780	5770	6290	6030	104	99	54-106	4	25		
2,4,5-Trichlorophenol	ug/kg	<1670	5780	5770	6380J	5770J	110	100	48-119		25		
2,4,6-Trichlorophenol	ug/kg	<1480	5780	5770	6440	5640J	111	98	45-127		25		
2,4-Dichlorophenol	ug/kg	<2540	5780	5770	5890	5610J	102	97	51-113		25		
2,4-Dimethylphenol	ug/kg	<1720	5780	5770	5540J	5250J	96	91	37-116		25		
2,4-Dinitrophenol	ug/kg	<12700	5780	5770	<13000	<13000	186	169	10-136		25	CH,MH	
2,4-Dinitrotoluene	ug/kg	<1720	5780	5770	6450	5900	111	102	48-116	9	25		
2,6-Dinitrotoluene	ug/kg	<1720	5780	5770	6390	5900	110	102	47-114	8	25		
2-Chloronaphthalene	ug/kg	<1620	5780	5770	6380	5940	110	103	51-108	7	25	MH	
2-Chlorophenol	ug/kg	<1760	5780	5770	6290	5890	109	102	54-106	7	25	MH	
2-Methylnaphthalene	ug/kg	<1700	5780	5770	6170	5790	100	94	48-111	6	25		

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2319795		2319796									
Parameter	Units	30459395002		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD		
2-Methylphenol(o-Cresol)	ug/kg	<2040	5780	5770	5990	5800	103	100	51-120	3	25		
2-Nitroaniline	ug/kg	<1970	5780	5770	6740J	5980J	116	104	55-115		25	MH	
2-Nitrophenol	ug/kg	<2250	5780	5770	6300	5860	109	101	37-118	7	25		
3&4-Methylphenol(m&p Cresol)	ug/kg	<3470	11600	11600	13000	11800	112	102	47-117	10	25		
3,3'-Dichlorobenzidine	ug/kg	<1660	5780	5770	4810J	4080J	83	71	10-136		25		
3-Nitroaniline	ug/kg	<3690	5780	5770	6760J	6150J	117	107	36-114		25	MH	
4,6-Dinitro-2-methylphenol	ug/kg	<4210	5780	5770	4440J	<4300	77	59	10-148		25		
4-Bromophenylphenyl ether	ug/kg	<2080	5780	5770	6240	5600J	108	97	55-114		25		
4-Chloro-3-methylphenol	ug/kg	<910	5780	5770	6350	6160	110	107	45-122	3	25		
4-Chloroaniline	ug/kg	<995	5780	5770	4940J	4550J	85	79	21-103		25		
4-Chlorophenylphenyl ether	ug/kg	<1640	5780	5770	6510	6040	112	105	55-113	7	25		
4-Nitroaniline	ug/kg	<7940	5780	5770	9870J	8480J	170	147	29-175		25	CH	
4-Nitrophenol	ug/kg	<1900	5780	5770	7680	6800	133	118	15-146	12	25	CH	
Acenaphthene	ug/kg	<1920	5780	5770	6320	5870	109	102	53-109	7	25		
Acenaphthylene	ug/kg	<1700	5780	5770	5780J	5410J	100	94	56-109		25		
Anthracene	ug/kg	<1300	5780	5770	6100	5430J	105	93	55-109		25		
Azobenzene	ug/kg	<2000	5780	5770	6080	5690J	105	99	49-119		25		
Benzo(a)anthracene	ug/kg	<2540	5780	5770	6120	5150J	102	85	52-120		25		
Benzo(a)pyrene	ug/kg	<1760	5780	5770	5550J	4540J	93	75	47-113		25		
Benzo(b)fluoranthene	ug/kg	<1720	5780	5770	7050	5440J	118	91	50-138		25		
Benzo(g,h,i)perylene	ug/kg	<1960	5780	5770	5160J	4590J	89	80	10-126		25		
Benzo(k)fluoranthene	ug/kg	<2500	5780	5770	5220J	4370J	87	72	47-133		25		
Benzoic acid	ug/kg	<28700	5780	5770	<29300	<29200	0	0	10-139		25	CH,ML	
Benzyl alcohol	ug/kg	<5000	5780	5770	6090	5270J	105	91	10-151		25		
bis(2-Chloroethoxy)methane	ug/kg	<2240	5780	5770	6240	5700J	108	99	53-104		25	MH	
bis(2-Chloroethyl) ether	ug/kg	<1030	5780	5770	6030	5630J	104	97	48-106		25		
bis(2-Chloroisopropyl) ether	ug/kg	<4800	5780	5770	6330	6120	109	106	44-114	3	25		
bis(2-Ethylhexyl)phthalate	ug/kg	<1800	5780	5770	6180	5440J	105	92	56-131		25		
Butylbenzylphthalate	ug/kg	<1590	5780	5770	6240	5470J	108	95	59-136		25		
Carbazole	ug/kg	<2220	5780	5770	6670	5950	115	103	52-106	12	25	MH	
Chrysene	ug/kg	<2090	5780	5770	6050	5360J	100	88	49-118		25		
Di-n-butylphthalate	ug/kg	<1910	5780	5770	6010	5220J	104	90	54-121		25		
Di-n-octylphthalate	ug/kg	<1280	5780	5770	6670	5350J	115	93	24-175		25		
Dibenz(a,h)anthracene	ug/kg	<2150	5780	5770	5120J	4540J	89	79	10-135		25		
Dibenzofuran	ug/kg	<1810	5780	5770	6440	6150	109	105	57-110	5	25		
Diethylphthalate	ug/kg	<1990	5780	5770	6380	5720J	110	99	61-111		25		
Dimethylphthalate	ug/kg	<1740	5780	5770	6500	5930	112	103	52-114	9	25		
Fluoranthene	ug/kg	<1820	5780	5770	6400	5600J	104	91	53-120		25		
Fluorene	ug/kg	<1730	5780	5770	6400	5950	111	103	56-109	7	25	MH	
Hexachloro-1,3-butadiene	ug/kg	<1840	5780	5770	6060	5860	105	101	49-111	3	25		
Hexachlorobenzene	ug/kg	<1630	5780	5770	6210	5780	107	100	54-118	7	25		
Hexachlorocyclopentadiene	ug/kg	<1340	5780	5770	4920J	4450J	85	77	10-109		25		
Hexachloroethane	ug/kg	<1530	5780	5770	5990	5770	103	100	42-106	4	25		
Indeno(1,2,3-cd)pyrene	ug/kg	<2130	5780	5770	5160J	4370J	87	74	10-128		25		

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Parameter	Units	2319795		2319796		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30459395002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Isophorone	ug/kg	<1860	5780	5770	6040	5560J	104	96	50-108			25	
N-Nitroso-di-n-propylamine	ug/kg	<2390	5780	5770	6470	6050	112	105	53-111	7		25	MH
N-Nitrosodimethylamine	ug/kg	<970	5780	5770	5620J	4880J	97	85	43-114			25	
N-Nitrosodiphenylamine	ug/kg	<1280	5780	5770	6140	5670J	106	98	53-105			25	MH
Naphthalene	ug/kg	<1530	5780	5770	6430	6150	106	101	55-106	4		25	
Nitrobenzene	ug/kg	<2100	5780	5770	6320	5960	109	103	52-106	6		25	MH
Pentachlorophenol	ug/kg	<7450	5780	5770	<7620	<7600	94	85	31-141			25	
Phenanthrene	ug/kg	<2490	5780	5770	6740	5850	112	96	48-126	14		25	
Phenol	ug/kg	<1680	5780	5770	6180	5750J	107	99	47-116			25	
Pyrene	ug/kg	<2070	5780	5770	6590	5690J	108	93	51-124			25	
2,4,6-Tribromophenol (S)	%						98	86	31-133				
2-Fluorobiphenyl (S)	%						105	100	49-108				
2-Fluorophenol (S)	%						101	95	44-113				
Nitrobenzene-d5 (S)	%						110	98	41-112				
Phenol-d6 (S)	%						101	93	44-112				
Terphenyl-d14 (S)	%						101	94	43-106				

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

QC Batch: 479939 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3510C Analysis Description: 8270E MSSV RV  
Laboratory: Pace Analytical Services - Greensburg  
Associated Lab Samples: 30459395001, 30459395003, 30459395005, 30459395006

METHOD BLANK: 2319069 Matrix: Water  
Associated Lab Samples: 30459395001, 30459395003, 30459395005, 30459395006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	<0.59	1.0	0.59	01/20/22 18:01	
1,2-Dichlorobenzene	ug/L	<0.60	1.0	0.60	01/20/22 18:01	
1,3-Dichlorobenzene	ug/L	<0.56	1.0	0.56	01/20/22 18:01	
1,4-Dichlorobenzene	ug/L	<0.56	1.0	0.56	01/20/22 18:01	
1-Methylnaphthalene	ug/L	<0.58	1.0	0.58	01/20/22 18:01	
2,4,5-Trichlorophenol	ug/L	<1.6	2.5	1.6	01/20/22 18:01	
2,4,6-Trichlorophenol	ug/L	<0.59	1.0	0.59	01/20/22 18:01	
2,4-Dichlorophenol	ug/L	<0.61	1.0	0.61	01/20/22 18:01	
2,4-Dimethylphenol	ug/L	<0.64	1.0	0.64	01/20/22 18:01	
2,4-Dinitrophenol	ug/L	<0.78	2.5	0.78	01/20/22 18:01	
2,4-Dinitrotoluene	ug/L	<0.46	1.0	0.46	01/20/22 18:01	
2,6-Dinitrotoluene	ug/L	<0.55	1.0	0.55	01/20/22 18:01	
2-Chloronaphthalene	ug/L	<0.66	1.0	0.66	01/20/22 18:01	
2-Chlorophenol	ug/L	<0.59	1.0	0.59	01/20/22 18:01	
2-Methylnaphthalene	ug/L	<0.59	1.0	0.59	01/20/22 18:01	
2-Methylphenol(o-Cresol)	ug/L	<0.49	1.0	0.49	01/20/22 18:01	
2-Nitroaniline	ug/L	<1.2	2.5	1.2	01/20/22 18:01	
2-Nitrophenol	ug/L	<0.67	1.0	0.67	01/20/22 18:01	
3&4-Methylphenol(m&p Cresol)	ug/L	<0.89	2.0	0.89	01/20/22 18:01	
3,3'-Dichlorobenzidine	ug/L	<0.81	1.0	0.81	01/20/22 18:01	
3-Nitroaniline	ug/L	<1.4	2.5	1.4	01/20/22 18:01	
4,6-Dinitro-2-methylphenol	ug/L	<0.78	2.5	0.78	01/20/22 18:01	
4-Bromophenylphenyl ether	ug/L	<0.68	1.0	0.68	01/20/22 18:01	
4-Chloro-3-methylphenol	ug/L	<0.63	1.0	0.63	01/20/22 18:01	
4-Chloroaniline	ug/L	<0.50	1.0	0.50	01/20/22 18:01	
4-Chlorophenylphenyl ether	ug/L	<0.60	1.0	0.60	01/20/22 18:01	
4-Nitroaniline	ug/L	<1.4	2.5	1.4	01/20/22 18:01	
4-Nitrophenol	ug/L	<0.35	1.0	0.35	01/20/22 18:01	
Acenaphthene	ug/L	<0.60	1.0	0.60	01/20/22 18:01	
Acenaphthylene	ug/L	<0.64	1.0	0.64	01/20/22 18:01	
Anthracene	ug/L	<0.66	1.0	0.66	01/20/22 18:01	
Azobenzene	ug/L	<0.65	1.0	0.65	01/20/22 18:01	
Benzo(a)anthracene	ug/L	<0.77	1.0	0.77	01/20/22 18:01	
Benzo(a)pyrene	ug/L	<0.76	1.0	0.76	01/20/22 18:01	
Benzo(b)fluoranthene	ug/L	<0.75	1.0	0.75	01/20/22 18:01	
Benzo(g,h,i)perylene	ug/L	<0.80	1.0	0.80	01/20/22 18:01	
Benzo(k)fluoranthene	ug/L	<0.72	1.0	0.72	01/20/22 18:01	
Benzoic acid	ug/L	<4.3	15.0	4.3	01/20/22 18:01	
Benzyl alcohol	ug/L	<0.98	1.0	0.98	01/20/22 18:01	
bis(2-Chloroethoxy)methane	ug/L	<0.58	1.0	0.58	01/20/22 18:01	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

METHOD BLANK: 2319069 Matrix: Water  
Associated Lab Samples: 30459395001, 30459395003, 30459395005, 30459395006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	<0.53	1.0	0.53	01/20/22 18:01	
bis(2-Chloroisopropyl) ether	ug/L	<0.62	1.0	0.62	01/20/22 18:01	
bis(2-Ethylhexyl)phthalate	ug/L	<1.5	2.5	1.5	01/20/22 18:01	
Butylbenzylphthalate	ug/L	<1.6	2.5	1.6	01/20/22 18:01	
Carbazole	ug/L	<0.70	1.0	0.70	01/20/22 18:01	
Chrysene	ug/L	<0.80	1.0	0.80	01/20/22 18:01	
Di-n-butylphthalate	ug/L	<0.80	1.0	0.80	01/20/22 18:01	
Di-n-octylphthalate	ug/L	<1.1	2.5	1.1	01/20/22 18:01	
Dibenz(a,h)anthracene	ug/L	<0.76	1.0	0.76	01/20/22 18:01	
Dibenzofuran	ug/L	<0.58	1.0	0.58	01/20/22 18:01	
Diethylphthalate	ug/L	<0.64	1.0	0.64	01/20/22 18:01	
Dimethylphthalate	ug/L	<0.64	1.0	0.64	01/20/22 18:01	
Fluoranthene	ug/L	<0.71	1.0	0.71	01/20/22 18:01	
Fluorene	ug/L	<0.61	1.0	0.61	01/20/22 18:01	
Hexachloro-1,3-butadiene	ug/L	<0.60	1.0	0.60	01/20/22 18:01	
Hexachlorobenzene	ug/L	<0.68	1.0	0.68	01/20/22 18:01	
Hexachlorocyclopentadiene	ug/L	<0.57	1.0	0.57	01/20/22 18:01	
Hexachloroethane	ug/L	<0.57	1.0	0.57	01/20/22 18:01	
Indeno(1,2,3-cd)pyrene	ug/L	<0.70	1.0	0.70	01/20/22 18:01	
Isophorone	ug/L	<0.60	1.0	0.60	01/20/22 18:01	
N-Nitroso-di-n-propylamine	ug/L	<0.58	1.0	0.58	01/20/22 18:01	
N-Nitrosodimethylamine	ug/L	<0.34	1.0	0.34	01/20/22 18:01	
N-Nitrosodiphenylamine	ug/L	<0.68	1.0	0.68	01/20/22 18:01	
Naphthalene	ug/L	<0.67	1.0	0.67	01/20/22 18:01	
Nitrobenzene	ug/L	<0.59	1.0	0.59	01/20/22 18:01	
Pentachlorophenol	ug/L	<1.5	2.5	1.5	01/20/22 18:01	
Phenanthrene	ug/L	<0.66	1.0	0.66	01/20/22 18:01	
Phenol	ug/L	<0.25	1.0	0.25	01/20/22 18:01	
Pyrene	ug/L	<0.76	1.0	0.76	01/20/22 18:01	
2,4,6-Tribromophenol (S)	%	121	10-140		01/20/22 18:01	
2-Fluorobiphenyl (S)	%	84	10-135		01/20/22 18:01	
2-Fluorophenol (S)	%	65	10-142		01/20/22 18:01	
Nitrobenzene-d5 (S)	%	91	10-140		01/20/22 18:01	
Phenol-d6 (S)	%	39	10-145		01/20/22 18:01	
Terphenyl-d14 (S)	%	115	10-128		01/20/22 18:01	

LABORATORY CONTROL SAMPLE: 2319070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	10	9.1	91	21-84	L1
1,2-Dichlorobenzene	ug/L	10	8.5	85	18-89	
1,3-Dichlorobenzene	ug/L	10	8.4	84	18-87	
1,4-Dichlorobenzene	ug/L	10	8.7	87	15-105	
1-Methylnaphthalene	ug/L	10	9.3	93	26-88	L1

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

LABORATORY CONTROL SAMPLE: 2319070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	10	10.2	102	57-113	
2,4,6-Trichlorophenol	ug/L	10	9.9	99	45-122	
2,4-Dichlorophenol	ug/L	10	9.6	96	33-96	
2,4-Dimethylphenol	ug/L	10	9.5	95	19-87	L1
2,4-Dinitrophenol	ug/L	10	9.2	92	15-119	
2,4-Dinitrotoluene	ug/L	10	9.9	99	40-119	
2,6-Dinitrotoluene	ug/L	10	9.7	97	50-116	
2-Chloronaphthalene	ug/L	10	9.3	93	30-101	
2-Chlorophenol	ug/L	10	9.1	91	27-97	
2-Methylnaphthalene	ug/L	10	8.7	87	24-91	
2-Methylphenol(o-Cresol)	ug/L	10	8.5	85	10-175	
2-Nitroaniline	ug/L	10	9.7	97	48-120	
2-Nitrophenol	ug/L	10	9.5	95	29-96	
3&4-Methylphenol(m&p Cresol)	ug/L	20	16.5	83	21-131	
3,3'-Dichlorobenzidine	ug/L	10	10.5	105	49-117	
3-Nitroaniline	ug/L	10	9.5	95	52-114	
4,6-Dinitro-2-methylphenol	ug/L	10	9.0	90	40-140	
4-Bromophenylphenyl ether	ug/L	10	8.4	84	47-120	
4-Chloro-3-methylphenol	ug/L	10	10.7	107	41-102	L1
4-Chloroaniline	ug/L	10	9.4	94	22-79	L1
4-Chlorophenylphenyl ether	ug/L	10	9.5	95	42-112	
4-Nitroaniline	ug/L	10	10.6	106	46-136	
4-Nitrophenol	ug/L	10	6.5	65	17-76	
Acenaphthene	ug/L	10	9.4	94	36-106	
Acenaphthylene	ug/L	10	9.2	92	35-103	
Anthracene	ug/L	10	10.1	101	56-106	
Azobenzene	ug/L	10	9.1	91	43-119	
Benzo(a)anthracene	ug/L	10	10.6	106	65-124	
Benzo(a)pyrene	ug/L	10	11.1	111	61-115	
Benzo(b)fluoranthene	ug/L	10	11.7	117	58-133	
Benzo(g,h,i)perylene	ug/L	10	10.5	105	40-142	
Benzo(k)fluoranthene	ug/L	10	10.4	104	61-121	
Benzoic acid	ug/L	10	8.0J	80	10-98	
Benzyl alcohol	ug/L	10	7.9	79	29-106	
bis(2-Chloroethoxy)methane	ug/L	10	9.5	95	33-96	
bis(2-Chloroethyl) ether	ug/L	10	9.0	90	25-98	
bis(2-Chloroisopropyl) ether	ug/L	10	8.9	89	23-104	
bis(2-Ethylhexyl)phthalate	ug/L	10	13.0	130	65-141	
Butylbenzylphthalate	ug/L	10	13.2	132	64-142	
Carbazole	ug/L	10	11.0	110	59-112	
Chrysene	ug/L	10	10.1	101	63-120	
Di-n-butylphthalate	ug/L	10	11.8	118	69-126	
Di-n-octylphthalate	ug/L	10	12.2	122	61-145	
Dibenz(a,h)anthracene	ug/L	10	10.9	109	52-138	
Dibenzofuran	ug/L	10	9.4	94	39-107	
Diethylphthalate	ug/L	10	10	100	61-117	
Dimethylphthalate	ug/L	10	9.7	97	54-114	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

LABORATORY CONTROL SAMPLE: 2319070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/L	10	11.2	112	65-119	
Fluorene	ug/L	10	9.6	96	44-110	
Hexachloro-1,3-butadiene	ug/L	10	8.9	89	13-112	
Hexachlorobenzene	ug/L	10	8.2	82	17-121	
Hexachlorocyclopentadiene	ug/L	10	9.2	92	10-83	L1
Hexachloroethane	ug/L	10	8.8	88	13-108	
Indeno(1,2,3-cd)pyrene	ug/L	10	10.5	105	48-140	
Isophorone	ug/L	10	9.5	95	34-93	L1
N-Nitroso-di-n-propylamine	ug/L	10	9.3	93	34-106	
N-Nitrosodimethylamine	ug/L	10	5.7	57	17-82	
N-Nitrosodiphenylamine	ug/L	10	8.7	87	34-97	
Naphthalene	ug/L	10	9.2	92	23-90	L1
Nitrobenzene	ug/L	10	9.0	90	26-128	
Pentachlorophenol	ug/L	10	12.3	123	37-125	
Phenanthrene	ug/L	10	9.9	99	56-112	
Phenol	ug/L	10	4.5	45	10-58	
Pyrene	ug/L	10	12.6	126	56-128	
2,4,6-Tribromophenol (S)	%			82	10-140	
2-Fluorobiphenyl (S)	%			85	10-135	
2-Fluorophenol (S)	%			57	10-142	
Nitrobenzene-d5 (S)	%			88	10-140	
Phenol-d6 (S)	%			36	10-145	
Terphenyl-d14 (S)	%			126	10-128	

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### QUALITY CONTROL DATA

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

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QC Batch:	479685	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30459395002, 30459395004, 30459395007, 30459395008, 30459395009, 30459395010, 30459395011, 30459395012, 30459395013, 30459395014, 30459395015, 30459395016, 30459395017, 30459395018

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SAMPLE DUPLICATE: 2318114

Parameter	Units	30459391012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.1	11.0	43	20	D6

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SAMPLE DUPLICATE: 2318115

Parameter	Units	30459391013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.5	10.3	10	20	

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## QUALIFIERS

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 479939  
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.  
Batch: 480148  
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.  
2c The analyte did not meet the method recommended minimum RF.  
CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.  
CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.  
D6 The precision between the sample and sample duplicate exceeded laboratory control limits.  
E Analyte concentration exceeded the calibration range. The reported result is estimated.  
ED Due to the extract's physical characteristics, the analysis was performed at dilution.  
H1 Analysis conducted outside the EPA method holding time.  
H2 Extraction or preparation conducted outside EPA method holding time.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

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### ANALYTE QUALIFIERS

lp	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30459395002	Sed-Us	EPA 3050B	482211	EPA 6010D	482728
30459395004	Sed-DS	EPA 3050B	482211	EPA 6010D	482728
30459395007	Sed-Trib	EPA 3050B	482211	EPA 6010D	482728
30459395008	SB-05	EPA 3050B	482211	EPA 6010D	482728
30459395009	SB-05-MS	EPA 3050B	482211	EPA 6010D	482728
30459395010	SB-06	EPA 3050B	482211	EPA 6010D	482728
30459395011	SB-03 (0-2)	EPA 3050B	482411	EPA 6010D	482729
30459395012	SB-03 (10-12)	EPA 3050B	482411	EPA 6010D	482729
30459395013	SB-04 (0-2)	EPA 3050B	482411	EPA 6010D	482729
30459395014	SB-04 (12-14)	EPA 3050B	482411	EPA 6010D	482729
30459395015	SB-01 (0-2)	EPA 3050B	482411	EPA 6010D	482729
30459395016	SB-01 (6-7)	EPA 3050B	482411	EPA 6010D	482729
30459395017	SB-02 (0-2)	EPA 3050B	482411	EPA 6010D	482729
30459395018	SB-02 (12-14)	EPA 3050B	482411	EPA 6010D	482729
30459395001	SW-US	EPA 3010A	481819	EPA 6010D	482240
30459395003	SW-DS	EPA 3010A	481819	EPA 6010D	482240
30459395005	SW-Trib	EPA 3010A	481819	EPA 6010D	482240
30459395001	SW-US	EPA 7470A	482826	EPA 7470A	483044
30459395003	SW-DS	EPA 7470A	482826	EPA 7470A	483044
30459395005	SW-Trib	EPA 7470A	482826	EPA 7470A	483044
30459395002	Sed-Us	EPA 7471B	482555	EPA 7471B	483316
30459395004	Sed-DS	EPA 7471B	482555	EPA 7471B	483316
30459395007	Sed-Trib	EPA 7471B	482555	EPA 7471B	483316
30459395008	SB-05	EPA 7471B	482555	EPA 7471B	483316
30459395009	SB-05-MS	EPA 7471B	482555	EPA 7471B	483316
30459395010	SB-06	EPA 7471B	482555	EPA 7471B	483316
30459395011	SB-03 (0-2)	EPA 7471B	482555	EPA 7471B	483316
30459395012	SB-03 (10-12)	EPA 7471B	482555	EPA 7471B	483316
30459395013	SB-04 (0-2)	EPA 7471B	482555	EPA 7471B	483316
30459395014	SB-04 (12-14)	EPA 7471B	482555	EPA 7471B	483316
30459395015	SB-01 (0-2)	EPA 7471B	483075	EPA 7471B	483315
30459395016	SB-01 (6-7)	EPA 7471B	483075	EPA 7471B	483315
30459395017	SB-02 (0-2)	EPA 7471B	482555	EPA 7471B	483316
30459395018	SB-02 (12-14)	EPA 7471B	482555	EPA 7471B	483316
30459395002	Sed-Us	EPA 3546	486355	EPA 8082A	486565
30459395004	Sed-DS	EPA 3546	486355	EPA 8082A	486565
30459395007	Sed-Trib	EPA 3546	486355	EPA 8082A	486565
30459395008	SB-05	EPA 3546	486355	EPA 8082A	486565
30459395009	SB-05-MS	EPA 3546	486355	EPA 8082A	486565
30459395010	SB-06	EPA 3546	486355	EPA 8082A	486565
30459395011	SB-03 (0-2)	EPA 3546	486355	EPA 8082A	486565
30459395012	SB-03 (10-12)	EPA 3546	486355	EPA 8082A	486565
30459395013	SB-04 (0-2)	EPA 3546	486355	EPA 8082A	486565
30459395014	SB-04 (12-14)	EPA 3546	486355	EPA 8082A	486565
30459395015	SB-01 (0-2)	EPA 3546	486355	EPA 8082A	486565

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2019 8730 - NPDES  
Pace Project No.: 30459395

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30459395016	SB-01 (6-7)	EPA 3546	486355	EPA 8082A	486565
30459395017	SB-02 (0-2)	EPA 3546	486355	EPA 8082A	486565
30459395018	SB-02 (12-14)	EPA 3546	486355	EPA 8082A	486565
30459395002	Sed-Us	EPA 3546	480094	EPA 8270E	480153
30459395004	Sed-DS	EPA 3546	480094	EPA 8270E	480153
30459395007	Sed-Trib	EPA 3546	480094	EPA 8270E	480153
30459395008	SB-05	EPA 3546	480094	EPA 8270E	480153
30459395009	SB-05-MS	EPA 3546	480094	EPA 8270E	480153
30459395010	SB-06	EPA 3546	480094	EPA 8270E	480153
30459395011	SB-03 (0-2)	EPA 3546	480094	EPA 8270E	480153
30459395012	SB-03 (10-12)	EPA 3546	480094	EPA 8270E	480153
30459395013	SB-04 (0-2)	EPA 3546	480094	EPA 8270E	480153
30459395014	SB-04 (12-14)	EPA 3546	480094	EPA 8270E	480153
30459395015	SB-01 (0-2)	EPA 3546	480094	EPA 8270E	480153
30459395016	SB-01 (6-7)	EPA 3546	480094	EPA 8270E	480153
30459395017	SB-02 (0-2)	EPA 3546	480094	EPA 8270E	480153
30459395018	SB-02 (12-14)	EPA 3546	480094	EPA 8270E	480153
30459395001	SW-US	EPA 3510C	479939	EPA 8270E	480029
30459395003	SW-DS	EPA 3510C	479939	EPA 8270E	480029
30459395005	SW-Trib	EPA 3510C	479939	EPA 8270E	480029
30459395006	SW-Trib-Dup	EPA 3510C	479939	EPA 8270E	480029
30459395012	SB-03 (10-12)	EPA 5035A	480148	EPA 8260C	480151
30459395014	SB-04 (12-14)	EPA 5035A	480148	EPA 8260C	480151
30459395016	SB-01 (6-7)	EPA 5035A	480148	EPA 8260C	480151
30459395018	SB-02 (12-14)	EPA 5035A	480148	EPA 8260C	480151
30459395012	SB-03 (10-12)	EPA 8260C	486480		
30459395014	SB-04 (12-14)	EPA 8260C	486480		
30459395016	SB-01 (6-7)	EPA 8260C	486480		
30459395018	SB-02 (12-14)	EPA 8260C	486480		
30459395001	SW-US	EPA 8260C	480492		
30459395003	SW-DS	EPA 8260C	480492		
30459395005	SW-Trib	EPA 8260C	480492		
30459395019	Trip Blank	EPA 8260C	480492		
30459395002	Sed-Us	ASTM D2974-87	479685		
30459395004	Sed-DS	ASTM D2974-87	479685		
30459395007	Sed-Trib	ASTM D2974-87	479685		
30459395008	SB-05	ASTM D2974-87	479685		
30459395009	SB-05-MS	ASTM D2974-87	479685		
30459395010	SB-06	ASTM D2974-87	479685		
30459395011	SB-03 (0-2)	ASTM D2974-87	479685		
30459395012	SB-03 (10-12)	ASTM D2974-87	479685		
30459395013	SB-04 (0-2)	ASTM D2974-87	479685		
30459395014	SB-04 (12-14)	ASTM D2974-87	479685		
30459395015	SB-01 (0-2)	ASTM D2974-87	479685		
30459395016	SB-01 (6-7)	ASTM D2974-87	479685		
30459395017	SB-02 (0-2)	ASTM D2974-87	479685		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2019 8730 - NPDES

Pace Project No.: 30459395

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
30459395018	SB-02 (12-14)	ASTM D2974-87	479685		

---

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/pubinfo/pas-standard-terms.pdf>

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or

# WO# : 30459395

Company: **Environment Standards**

Address: **1140 Valley Forge Rd**

Report To: **Lean Mistick**

Copy To: **kmorton@envstd.com**

Customer Project Name/Number: **2019 8730-NAPP**

Phone: **814-449-0722**

Email: **kmorton@envstd.com**

Site/Facility ID #: **WV FAIRMONT**

Purchase Order #: **00097939**

Quote #: **STD 10 days**

Turnaround Date Required: **12 Day**

Rush: **[ ] Same Day [ ] Next Day [ ] 12 Day [ ] 3 Day [ ] 14 Day [ ] 15 Day**

Analysis: **\_\_\_\_\_**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **0945**

Res Cl **6**

# of Ctns **6**

Matrix \* **SL**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **0955**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1010**

Res Cl **2**

# of Ctns **2**

Matrix \* **SL**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1015**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1030**

Res Cl **2**

# of Ctns **2**

Matrix \* **SL**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1035**

Res Cl **2**

# of Ctns **2**

Matrix \* **SL**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1050**

Res Cl **4**

# of Ctns **4**

Matrix \* **SL**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1050**

Res Cl **2**

# of Ctns **2**

Matrix \* **SL**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**

Comp/Grab **G**

Collected (or Composite Start) Date **11/22/2015**

Composite End Time **1100**

Res Cl **2**

# of Ctns **2**

Matrix \* **W**



# CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or  
MTJL Log-in Number Here  
**#30459395 #**

Company: Environmental Standards Billing Information: **ENV STD**

Address: **1140 Valley Forge Rd**

Report To: **Lean Mistick**

Copy To: **Knorton@ENVSTD.COM**

Customer Project Name/Number: **20198730 NAPP**

Phone: **814-444-0221**

Site/Facility ID #: **WV FAIRMOUNT**

Collected By (print): **K. Morton**

Collected By (signature): **[Signature]**

Sample Disposal: **STD 30 days**

Turnaround Date Required: **STD 30 days**

Rush: (Expedite Charges Apply)  
 Same Day  Next Day  
 12 Day  3 Day  
 14 Day  15 Day

Analysis: \_\_\_\_\_

Product Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Matrix \*  
SB-03(0-2)  
SB-03(10-12)  
SB-04(0-2)  
SB-04(12-14)  
SB-01(0-2)  
SB-01(6-7)  
SB-02(0-2)  
SB-02(12-14)  
TRIP BLANK

Comp / Grab  
G  
G  
G  
G  
G  
G  
G  
G  
W

Collected (or Composite Start) Date Time  
11/22 1055  
11/22 1125  
11/22 1150  
11/22 1210  
11/22 1245  
11/22 1320  
11/22 1345  
11/22 1405  
11/22 0000

Res CI # of Ctns  
2  
0  
2  
0  
2  
0  
2  
0  
2

Container Type: Plastic (P) or Glass (G)  
G  
G  
G  
G  
G  
G  
G  
G  
G

Container Preservative Type \*\*  
U  
U  
U  
U  
U  
U  
U  
U  
U

Lab Profile/Line:  
Lab Sample Receipt Checklist:  
Custody Seals Present/Intact Y N NA  
Custody Signatures Present Y N NA  
Collector Signature Present Y N NA  
Bottles Intact Y N NA  
Correct Bottles Y N NA  
Sufficient Volume Y N NA  
Samples Received on Ice Y N NA  
VOA - Headspace Acceptable Y N NA  
USDA Regulated Soils Y N NA  
Samples in Holding Time Y N NA  
Residual Chlorine Present Y N NA  
Cl Strips: Y N NA  
Sample pH Acceptable Y N NA  
pH Strips: Y N NA  
Sulfide Present Y N NA  
Lead Acetate Strips: Y N NA

LAB USE ONLY:  
Lab Sample # / Comments:  
**See page 1**

Customer Remarks / Special Conditions / Possible Hazards:  
SHORT HOLDS PRESENT (<72 hours): Y N N/A

Type of Ice Used: Wet Blue Dry None

Packing Material Used:  
Radchem sample(s) screened (<500 cpm): Y N NA

Date/Time: **11/3/22 1130**

Date/Time: **11/3/22 1130**

Date/Time: **11/3/22 1430**

Date/Time: \_\_\_\_\_

Relinquished by/Company: (Signature)  
**[Signature]**  
Relinquished by/Company: (Signature)  
**[Signature]**  
Relinquished by/Company: (Signature)  
**[Signature]**

Received by/Company: (Signature)  
**[Signature]**  
Received by/Company: (Signature)  
**[Signature]**  
Received by/Company: (Signature)  
**[Signature]**

MTJL LAB USE ONLY  
Table #:  
Accnum:  
Template:  
Prelogin:  
PM:  
PB:

FEDEX UPS Client Courier Pace Courier  
Date/Time: **11/3/22 1130**  
Date/Time: **11/3/22 1430**

LAB Sample Temperature Info:  
Temp Blank Received: Y N NA  
Therm ID#: \_\_\_\_\_  
Cooler 1 Temp Upon Receipt: \_\_\_ °C  
Cooler 1 Therm Corr. Factor: \_\_\_ °C  
Cooler 1 Corrected Temp: \_\_\_ °C  
Comments:

Trip Blank Received: Y N NA  
HCL MeOH TSP Other  
Non Conformance(s): YES / NO  
Page: \_\_\_ of: \_\_\_

ALL BOLD OUTLINED AREAS are for LAB USE ONLY  
Lab Project Manager:

Container Preservative Type \*\*  
U U U U U U U U U U

Matrix *	Comp / Grab	Collected (or Composite Start) Date Time	Res CI	# of Ctns	Container Type: Plastic (P) or Glass (G)	Container Preservative Type **	Analyses
SB-03(0-2)	G	11/22 1055	2	2	G	U	8270 SVOC METALS VOC 82100 5035 LL Tetrachloro K+
SB-03(10-12)	G	11/22 1125	0	0	G	U	
SB-04(0-2)	G	11/22 1150	2	2	G	U	
SB-04(12-14)	G	11/22 1210	0	0	G	U	
SB-01(0-2)	G	11/22 1245	2	2	G	U	
SB-01(6-7)	G	11/22 1320	0	0	G	U	
SB-02(0-2)	G	11/22 1345	2	2	G	U	
SB-02(12-14)	G	11/22 1405	0	0	G	U	
TRIP BLANK	W	11/22 0000	2	2	G	U	

LAB Sample Temperature Info:  
Temp Blank Received: Y N NA  
Therm ID#: \_\_\_\_\_  
Cooler 1 Temp Upon Receipt: \_\_\_ °C  
Cooler 1 Therm Corr. Factor: \_\_\_ °C  
Cooler 1 Corrected Temp: \_\_\_ °C  
Comments:

Client

ESI

Profile Number

13650

Site

2019 6736 Napp

Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC
1	WA						2										1					2						
2	SL																					3						
3	WA						2										1					3						
4	SL																					3						
5	WA						2																					
6	WA						2																					
7	SL																											
8																												
9																												
10																												
11																												
12																												

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unprservd
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass Na Thiosulfate
BG1U	1L clear glass unprservd
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unprservd
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WGFU	4oz wide jar unprservd
BG2U	500mL clear glass unprservd
AG2U	500mL amber glass unprservd
WGKU	8oz wide jar unprservd

Plastic / Misc.	
GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unprservd
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unprservd
BP3C	250ml plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unprservd
EZI	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag
WT	Water
SL	Solid
OL	Non-aqueous liquid
WP	Wipe

# Pace Greensburg Lab -Sample Container Count



Client \_\_\_\_\_

Profile Number \_\_\_\_\_

Site \_\_\_\_\_

Notes \_\_\_\_\_

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC
1B	SL																											
2N																												
3S																												
4L																												
5D																												
6L																												
7A	WA																											
8																												
9																												
10																												
11																												
12																												

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass Na Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpreserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WGFU	4oz wide jar unpreserved
BG2U	500mL clear glass unpreserved
AG2U	500mL amber glass unpreserved
WGKU	8oz wide jar unpreserved

Plastic / Misc.	
GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NaOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved
EZI	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag
WT	Water
SL	Solid
OL	Non-aqueous liquid
WP	Wipe

#30459395#

**PLEASE RETURN THIS COPY WITH COC**

**Ship To : Pace Container Order #893509**

**Order By :** Addresses

**Company:** Environmental Standards, Inc.      **Company:** Pace Analytical Pittsburgh

**Contact:** Kelsey Morton      **Contact:** Smetanka, Megan

**Email:** kmorton@envstd.com      **Email:** megan.smetanka@pacelabs.com

**Address 1:** 140 Valley Forge Road      **Address:** 1638 Roseytown Road

**City:** Valley Forge      **City:** Greensburg

**State PA:** Zip 19482      **State PA:** Zip 15601

**Phone:** (814) 449-0221      **Phone:** (724) 850-5600

**Info**

**Project Name:** West Fork River Trail      **Due Date:** 01/03/2022      **Profile:** 13650      **Quote:**

**Project Manager:** Smetanka, Megan      **Return Date:**      **Carrier:** Pace Courier      **Location:** WV

**Trip Blanks**  Include Trip Blanks

**Bottle Labels**  Blank  Pre-Printed No Sample IDs  Pre-Printed With Sample IDs

**Bottles**  Boxed Cases  Individually Wrapped  Grouped By Sample ID/Matrix

**Return Shipping Labels**  No Shipper  With Shipper

**COC Options**  Number of Blanks  Pre-Printed

**Misc**

Sampling Instructions       Syringes

Custody Seal       Coolers

Extra Bubble Wrap       Temp. Blanks

Short Hold/Rush Stickers       DI Water (Liter(s))

USDA Regulated Soils

# of Samples Matrix      Test      Container      Total      # of      Lot #      Notes

# of Samples Matrix	Test	Container	Total	# of	Lot #	Notes
6	8270 SVOC	4oz. Amber Wide Mouth Jar unpres	6	0	110821-1KM	Surface Soil
6	Metals	4oz. amber jar unpreserved	6	0	110821-1KM	Surface Soil
6	VOC 8260 5035 Low Level	Terracore kit w/ sodium bisulfate	8	2	120621-3YW	Subsurface soil
6	8270 SVOC	4oz amber glass unpreserved	6	0	110821-1KM	Subsurface soil
6	RCRA Metals	4oz. amber jar unpreserved	6	0	110821-1KM	Subsurface soil
3	SVOC 8270	4oz. Amber Wide Mouth Jar unpres	3	0	110821-1KM	Sediment
3	RCRA Metals	4oz. amber jar unpreserved	3	0	110821-1KM	Sediment
3	SVOC 8270	2-100mL amber glass, unpres	8	2	110121-1FK	Surface Water
3	VOC by 8260	3 x 40 mL VOA HCl	9	0	110821-3CYR	Surface Water

**Hazard Shipping Placard in Place : NO**

**Ship Date:** 12/30/2021

**Prepared By:** George

**Verified By:** David Gunsilius

Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

**Sample #** 30459305

**Date Rec'd:**

**Received By:**

**Verified By:**

Please include the proposal number on the chain of custody to insure proper billing.

**PLEASE RETURN THIS COPY** Pace Container Order #893509

**Order By :** \_\_\_\_\_  
**Company:** Environmental Standards, Inc. \_\_\_\_\_  
**Contact:** Kelsey Morton \_\_\_\_\_  
**Email:** kmorton@envstd.com \_\_\_\_\_  
**Address:** 1140 Valley Forge Road \_\_\_\_\_  
**City:** Valley Forge \_\_\_\_\_  
**State:** PA \_\_\_\_\_  
**Zip:** 19482 \_\_\_\_\_  
**Phone:** (814) 449-0221 \_\_\_\_\_

**Ship To :** \_\_\_\_\_  
**Company:** Environmental Standards, Inc. \_\_\_\_\_  
**Contact:** Kelsey Morton \_\_\_\_\_  
**Email:** kmorton@envstd.com \_\_\_\_\_  
**Address:** 1 Charters Place \_\_\_\_\_  
**Address 2:** \_\_\_\_\_  
**City:** Pittsburgh \_\_\_\_\_  
**State:** PA \_\_\_\_\_  
**Zip:** 15205 \_\_\_\_\_  
**Phone:** (814) 449-0221 \_\_\_\_\_

**Return To: WITH COC** \_\_\_\_\_  
**Company:** Pace Analytical Pittsburgh \_\_\_\_\_  
**Contact:** Smetanka, Megan \_\_\_\_\_  
**Email:** megan.smetanka@pacelabs.com \_\_\_\_\_  
**Address:** 1638 Roseytown Road \_\_\_\_\_  
**Address 2:** Suites 2,3,4 \_\_\_\_\_  
**City:** Greensburg \_\_\_\_\_  
**State:** PA \_\_\_\_\_  
**Zip:** 15601 \_\_\_\_\_  
**Phone:** (724)850-5600 \_\_\_\_\_

**Info**

**Project Name:** West Fork River Trail  
**Project Manager:** Smetanka, Megan  
**Return Date:** \_\_\_\_\_  
**Carrier:** Pace Courier  
**Profile:** 13650  
**Quote:** \_\_\_\_\_

Trip Blanks  
 Blank  
 Pre-Printed No Sample IDs  
 Pre-Printed With Sample IDs

Bottles  
 Boxed Cases  
 Individually Wrapped  
 Grouped By Sample ID/Matrix

No Shipper  
 With Shipper  
**Return Shipping Labels**

Number of Blanks  
 Pre-Printed  
**COC Options**

**Misc**

Sampling Instructions  
 Custody Seal  
 Temp. Blanks  
 Coolers  
 Syringes

Extra Bubble Wrap  
 Short Hold/Rush Stickers  
 DI Water (Liter(s))  
 USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
3	WT	Dissolved Metals FF	250mL plastic w/HNO3	3	0	110821-2EIZ	Surface Water
1	WT	Trip BLANK	2-40mL HCL w/custody seal	2	0	112221-3CYR	

**Hazard Shipping Placard in Place : NO**

LAB USE:

**Ship Date:** 12/30/2021  
**Prepared By:** George  
**Verified By:** David Gunsilius

Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.  
 Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.  
 Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.  
 Payment term are net 30 days.  
 Please include the proposal number on the chain of custody to insure proper billing.

**CLIENT USE (Optional):**  
**Date Rec'd:** \_\_\_\_\_  
**Received By:** \_\_\_\_\_  
**Verified By:** \_\_\_\_\_

**Sample**

**WO# : 30459395**  
  
 30459395

## LIMS30 Internal Shipping Manifest

Shipping Laboratory Location Code <b>GBUR</b>		Receiving Laboratory Location Code <b>BEAV</b>	
Pace Greensburg: 1638 Roseytown Road Suite 2,3,4 Greensburg PA 15601		Pace Beaver: 225 Industrial Park Road Beaver WV 25813	
Shipping Information			
Cooler ID	1	Cooler temp (rcvd) °C	9.8
Packaged on Ice (Y/N)	Y	Correction Factor	5.85
Shipping Method	Courier	Cooler temp (corr) °C	23
Tracking #	NA	IR GUN ID	23
PWS* Drinking water?	NA	Received on Ice?	23

**\* COOLER 1 \***

\* If sample is from a PWS, the PWSID can be found in LIMS30

	Signature	Location	Date	Time
Relinquished	<i>GAUCOMITVA</i>	GBUR	2/2/22	16:00
Received		Beav	2/3/22	2:11
Relinquished				
Received				
Relinquished				
Received				

LOG#	Scan Date	Container ID	Type	LIMS30SID	LIMS30Order
RDC	2/2/2022	3046081003 WGRU2/2	WGFU	3046081003	3046081
RDC	2/2/2022	30461348001 WGRU3/3	WGFU	30461348001	30461348
RDC	2/2/2022	30461411001 WGRU1/1	WGFU	30461411001	30461411
RDC	2/2/2022	30461412001 WGRU1/1	WGFU	30461412001	30461412
RDC	2/2/2022	30459395002 WGRU2/2	WGFU	30459395002	30459395
RDC	2/2/2022	30459395003 WGRU2/2	WGFU	30459395003	30459395
RDC	2/2/2022	30459395004 WGRU2/2	WGFU	30459395004	30459395
RDC	2/2/2022	30459395005 WGRU2/2	WGFU	30459395005	30459395
RDC	2/2/2022	30459395006 WGRU2/2	WGFU	30459395006	30459395
RDC	2/2/2022	30459395007 WGRU2/2	WGFU	30459395007	30459395
RDC	2/2/2022	30459395008 WGRU2/2	WGFU	30459395008	30459395
RDC	2/2/2022	30459395009 WGRU2/2	WGFU	30459395009	30459395
RDC	2/2/2022	30459395010 WGRU2/2	WGFU	30459395010	30459395
RDC	2/2/2022	30459395011 WGRU2/2	WGFU	30459395011	30459395
RDC	2/2/2022	30459395012 WGRU2/2	WGFU	30459395012	30459395
RDC	2/2/2022	30459395013 WGRU2/2	WGFU	30459395013	30459395
RDC	2/2/2022	30459395014 WGRU2/2	WGFU	30459395014	30459395
RDC	2/2/2022	30459395015 WGRU2/2	WGFU	30459395015	30459395
RDC	2/2/2022	30459395016 WGRU2/2	WGFU	30459395016	30459395
RDC	2/2/2022	30459395017 WGRU2/2	WGFU	30459395017	30459395
RDC	2/2/2022	30459395018 WGRU2/2	WGFU	30459395018	30459395
RDC	2/2/2022	30460926001 WGRU2/2	WGFU	30460926001	30460926
RDC	2/2/2022	30460926002 WGRU2/2	WGFU	30460926002	30460926
RDC	2/2/2022	30460926003 WGRU2/2	WGFU	30460926003	30460926
RDC	2/2/2022	30460926004 WGRU2/2	WGFU	30460926004	30460926
RDC	2/2/2022	30460926005 WGRU2/2	WGFU	30460926005	30460926
RDC	2/2/2022	30460926006 WGRU2/2	WGFU	30460926006	30460926
RDC	2/2/2022	30460926007 WGRU2/2	WGFU	30460926007	30460926
RDC	2/2/2022	30460926008 WGRU2/2	WGFU	30460926008	30460926
RDC	2/2/2022	30460926009 WGRU2/2	WGFU	30460926009	30460926
RDC	2/2/2022	30460926010 WGRU2/2	WGFU	30460926010	30460926
RDC	2/2/2022	30460926011 WGRU2/2	WGFU	30460926011	30460926
RDC	2/2/2022	30460926012 WGRU2/2	WGFU	30460926012	30460926
RDC	2/2/2022	30460926013 WGRU2/2	WGFU	30460926013	30460926

## LIMS30 Internal Shipping Manifest

<b>Shipping Laboratory Location Code</b>		<b>Receiving Laboratory Location Code</b>	
<b>GBUR</b>		<b>BEAV</b>	
Pace Greensburg: 1638 Roseytown Road Suite 2, 3, 4 Greensburg PA 15601		Pace Beaver: 225 Industrial Park Road Beaver WV 25813	
Shipping Information			
Cooler ID	1	Cooler temp (rcvd) °C	
Packaged on Ice (Y/N)	Y	Correction Factor	
Shipping Method	Courier	Cooler temp (corr) °C	
Tracking #	NA	IR GUN ID	
PWS * Drinking water?	NA	Received on Ice?	
* If sample is from a PWS, the PWSID can be found in LIMS30			

\*COOLER 1\*

	Signature	Location	Date	Time
Relinquished		GBUR		
Received				
Relinquished				
Received				
Relinquished				
Received				

LOG#	Scan Date	Container ID	Type	LIMS Lab ID	LIMS Wgt	Coupler
RDC	2/2/2022	30460926014 WGFU2/2	WGFU	30460926014	30460926	
RDC	2/2/2022	30460926015 WGFU2/2	WGFU	30460926015	30460926	
RDC	2/2/2022	30460926016 WGFU2/2	WGFU	30460926016	30460926	
RDC	2/2/2022	30460926017 WGFU2/2	WGFU	30460926017	30460926	
RDC	2/2/2022	30460926018 WGFU2/2	WGFU	30460926018	30460926	
RDC	2/2/2022	30460926019 WGFU2/2	WGFU	30460926019	30460926	
RDC	2/2/2022	30460926020 WGFU2/2	WGFU	30460926020	30460926	
RDC	2/2/2022	30460926021 WGFU2/2	WGFU	30460926021	30460926	
RDC	2/2/2022	30460926022 WGFU2/2	WGFU	30460926022	30460926	
RDC	2/2/2022	30459395023 WGFU2/2	WGFU	30459395023	30459395	
RDC	2/2/2022	30459395024 WGFU2/2	WGFU	30459395024	30459395	
RDC	2/2/2022	30459395025 WGFU2/2	WGFU	30459395025	30459395	
RDC	2/2/2022	30459395026 WGFU2/2	WGFU	30459395026	30459395	
RDC	2/2/2022	30459395027 WGFU2/2	WGFU	30459395027	30459395	
RDC	2/2/2022	30459395028 WGFU2/2	WGFU	30459395028	30459395	
RDC	2/2/2022	30459395029 WGFU2/2	WGFU	30459395029	30459395	
RDC	2/2/2022	30459395030 WGFU2/2	WGFU	30459395030	30459395	
RDC	2/2/2022	30459395031 WGFU2/2	WGFU	30459395031	30459395	
RDC	2/2/2022	30459395032 WGFU2/2	WGFU	30459395032	30459395	
RDC	2/2/2022	30459395033 WGFU2/2	WGFU	30459395033	30459395	
RDC	2/2/2022	30459395034 WGFU2/2	WGFU	30459395034	30459395	
RDC	2/2/2022	30459395035 WGFU2/2	WGFU	30459395035	30459395	
RDC	2/2/2022	30459395036 WGFU2/2	WGFU	30459395036	30459395	
RDC	2/2/2022	30459395037 WGFU2/2	WGFU	30459395037	30459395	
RDC	2/2/2022	30459395038 WGFU2/2	WGFU	30459395038	30459395	
RDC	2/2/2022	30460926039 WGFU2/2	WGFU	30460926039	30460926	
RDC	2/2/2022	30460926040 WGFU2/2	WGFU	30460926040	30460926	
RDC	2/2/2022	30460926041 WGFU2/2	WGFU	30460926041	30460926	
RDC	2/2/2022	30460926042 WGFU2/2	WGFU	30460926042	30460926	
RDC	2/2/2022	30460926043 WGFU2/2	WGFU	30460926043	30460926	
RDC	2/2/2022	30460926044 WGFU2/2	WGFU	30460926044	30460926	
RDC	2/2/2022	30460926045 WGFU2/2	WGFU	30460926045	30460926	
RDC	2/2/2022	30460926046 WGFU2/2	WGFU	30460926046	30460926	
RDC	2/2/2022	30460926047 WGFU2/2	WGFU	30460926047	30460926	
RDC	2/2/2022	30460926048 WGFU2/2	WGFU	30460926048	30460926	
RDC	2/2/2022	30460926049 WGFU2/2	WGFU	30460926049	30460926	
RDC	2/2/2022	30460926050 WGFU2/2	WGFU	30460926050	30460926	

W0#: 30459395

PM: MS1      Due Date: 01/27/22  
 CLIENT: ESI

## LIMS30 Internal Shipping Manifest

Shipping Laboratory Location Code  
**GBUR**

Receiving Laboratory Location Code  
**BEAV**

Pace Greensburg: 1638 Roseytown Road Suite 2,3,4  
 Greensburg PA 15601

Pace Beaver: 225 Industrial Park Road Beaver  
 WV 25813

Shipping Information

Received Information

Cooler ID	1	Cooler temp (rcvd) °C	
Packaged on Ice (Y/N)	Y	Correction Factor	
Shipping Method	Courier	Cooler temp (corr) °C	
Tracking #	NA	IR SUN ID	
PWS* Drinking water?	NA	Received on ice?	

**\* COOLER 1 \***

\* If sample is from a PWS, the PWSID can be found in LIMS30

	Signature	Location	Date	Time
Relinquished		GBUR		
Received				
Relinquished				
Received				
Relinquished				
Received				

Issue	Scan Date	Container ID	TYPE	LIMS Lab ID	LIMS Work Order
RDC	2/2/2022	30460926051 WGFU2/2	WGFU	30460926051	30460926
RDC	2/2/2022	30460926052 WGFU2/2	WGFU	30460926052	30460926
RDC	2/2/2022	30460926053 WGFU2/2	WGFU	30460926053	30460926
RDC	2/2/2022	30460926054 WGFU2/2	WGFU	30460926054	30460926
RDC	2/2/2022	30460926055 WGFU2/2	WGFU	30460926055	30460926
RDC	2/2/2022	30460926056 WGFU2/2	WGFU	30460926056	30460926
RDC	2/2/2022	30460926057 WGFU2/2	WGFU	30460926057	30460926
RDC	2/2/2022	30460926058 WGFU2/2	WGFU	30460926058	30460926
RDC	2/2/2022	30460381001 WGFU2/2	WGFU	30460381001	30460381
RDC	2/2/2022	30460381002 WGFU2/2	WGFU	30460381002	30460381
RDC	2/2/2022	30461418001 WGFU2/2	WGFU	30461418001	30461418
RDC	2/2/2022	30461418002 WGFU2/2	WGFU	30461418002	30461418
RDC	2/2/2022	30461418003 WGFU2/2	WGFU	30461418003	30461418
RDC	2/2/2022	30461418004 WGFU2/2	WGFU	30461418004	30461418
RDC	2/2/2022	30461210002 BP2N1/1	BP2N	30461210002	30461210

**WO# : 30459395**  
 PM : MS1 Due Date: 01/27/22  
 CLIENT : ESI

LIMS73 Lab Sample Condition Upon Receipt (West Virginia)



Client Name: \_\_\_\_\_

**W0# : 30459395**  
**PM : MS1**  
**CLIENT : ESI**  
**Due Date : 01/27/22**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: Shel Perry

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box/Containers Present:  yes  no

Thermometer Used \_\_\_\_\_ Type of Ice:  Wet  Blue  None

Cooler Temperature 5.8 °C Correction Factor: 6 °C Final Temp: 5.8 °C

Comments: \_\_\_\_\_

pH paper Lot# AD5320 Date and Initials of person examining contents: SL 2/13/22

	Yes	No	N/A
Chain of Custody Present:			1
Chain of Custody Filled Out:			1
Chain of Custody Relinquished:			
Sampler Name & Signature on COC:			3. <u>S. Mansford</u>
Sample Labels match COC:			4. <u>S</u>
-Includes date/time/ID			5. <u>SL</u>
Samples Arrived within Hold Time:			6. <u>SL</u>
Short Hold Time Analysis (<72hr remaining):			7. <u>SL</u>
Rush Turn Around Time Requested:			8. <u>Unknown rdo COC</u>
Sufficient Volume:			9. <u>—</u>
Correct Containers Used:			10. <u>—</u>
-Pace Containers Used:			11. <u>—</u>
Containers Intact:			12. <u>—</u>
Orthophosphate field filtered:			13. <u>—</u>
Hex Cr Aqueous sample field filtered:			14. <u>—</u>
-pH adjusted within 24 hours? (If yes, indicate acid lot #)			15. <u>—</u>
Filtered volume received for Dissolved tests:			
All containers have been checked for preservation:			
exceptions: VOA, coliform, O&G, LLMercury, Non-aqueous matrix			
All containers meet method preservation requirements:			
Initial when completed			Date: <u>2/13/22</u>
Tests not preserved:			
Headspace in VOA Vials:			16. <u>—</u>
Trip Blank Present:			17. <u>—</u>
Trip Blank Custody Seals Present:			
Initial when completed:			Date: <u>2/13/22</u>

Client Notification/ Resolution: \_\_\_\_\_  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted By: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

A check in this box indicates that additional information has been stored in ereports.

\*PM review is documented electronically in LIMS, when the Project Manager closes the SRF Review schedule in LIMS. The status may be reviewed in the Status section of the Workorder Edit Screen.

**Evaluation of Field Duplicate Sample Precision  
West Fork River Trail - City of Fairmont  
Phase II Data Validation Report  
Fairmont, WV**

Units <u>mg/kg and ug/kg</u>	<b>PRECISION OBJECTIVES<sup>1</sup></b>	
	Analyte > or = 5 X RL	RPD < or = 40
	Analyte < 5 X RL	Difference < or = RL Times 2

ANALYTE DETECTED	SB-05(0-2)			SB-05(0-2)-Dup			Difference	RPD	Notes
	Analyte	Qual	RL	Analyte	Qual	RL			
	Concentration <sup>2</sup>			Concentration <sup>2</sup>					
Arsenic	8		0.81	6.5		0.87	NA	20.69%	IN
Barium	135		0.84	113		0.9	NA	17.74%	IN
Cadmium	0.64	J	0.18	0.45	J	0.19	0.19	NA	IN
Chromium	20.9		0.85	20.4		0.92	NA	2.42%	IN
Lead	259		0.71	135		0.76	NA	62.94%	1
Mercury	0.11	J	0.013	0.1	J	0.014	NA	9.52%	IN
Selenium	2.5	J	1.5	4.3	J	1.7	1.8	NA	IN
Silver	13.2		0.62	14.8		14.8	1.6	NA	IN
Aroclor 1016	148	U	148	161	U	161	13	NA	IN
Aroclor 1221	212	U	212	231	U	231	19	NA	IN
Aroclor 1232	218	U	218	237	U	237	19	NA	IN
Aroclor 1242	175	U	175	190	U	190	15	NA	IN
Aroclor 1248	138	U	138	150	U	150	12	NA	IN
Aroclor 1254	128	U	128	139	U	139	11	NA	IN
Aroclor 1260	136	U	136	148	U	148	12	NA	IN
Acenaphthene	3210	U	3210	1780	U	1780	1430	NA	IN
Acenaphthylene	2840	U	2840	1570	U	1570	1270	NA	IN
Anthracene	2170	U	2170	1200	U	1200	970	NA	IN
Benz[a]anthracene	6870	J	4250	2350	U	2350	4520	NA	IN
Benzo[b]fluoranthene	12000		2870	3270	J	1590	8730	NA	2
Benzo[k]fluoranthene	10000		4180	2720	J	2310	7280	NA	IN
Benzo[g,h,i]perylene	3280	U	3280	1810	U	1810	1470	NA	IN
Benzo[a]pyrene	6290	J	2940	1650	J	1620	4640	NA	IN
Chrysene	7360	J	3500	2030	J	1930	5330	NA	IN
Dibenz[a,h]anthracene	3600	U	3600	1990	U	1990	1610	NA	IN
Fluoranthene	16000		3040	4460	J	1680	11540	NA	2
Fluorene	2900	U	2900	1600	U	1600	1300	NA	IN
Indeno[1,2,3-cd]pyrene	3560	U	3560	1970	U	1970	1590	NA	IN
1-Methylnaphthalene	2380	U	2380	1310	U	1310	1070	NA	IN
2-Methylnaphthalene	2840	U	2840	1570	U	1570	1270	NA	IN
Naphthalene	2560	U	2560	1420	U	1420	1140	NA	IN
Phenanthrene	7400	J	4160	2300	U	2300	5100	NA	IN
Pyrene	13200		3460	3750	J	1910	9450	NA	2

U) The analyte was not-detected in the sample. The numerical value will be used for comparison purposes.

U\* or B) The result was blank qualified. The numerical value will be used for comparison purposes.

NA) The RPD or Difference is not applicable.

1) Both results are > or = 5 X RL and RPD over acceptance limit, flag positive results "J".

2) At least one of the results is < 5 X RL and difference is over acceptance limit, flag positive results "J" and "not-detected" results "UJ".

**Comments:**

IN = comparison was acceptable

**Evaluation of Field Duplicate Sample Precision  
West Fork River Trail - City of Fairmont  
Phase II Data Validation Report  
Fairmont, WV**

Units <u>        </u> ug/l	<b>PRECISION OBJECTIVES<sup>1</sup></b>		
	<b>Analyte &gt; or = 5 X RL</b>	RPD < or =	20
	<b>Analyte &lt; 5 X RL</b>	Difference < or = RL Times	1

ANALYTE DETECTED	SW-Trib			SW-Trib-DUP			Difference	RPD	Notes
	Analyte Concentration <sup>2</sup>	Qual	RL	Analyte Concentration <sup>2</sup>	Qual	RL			
Acenaphthene	0.62	U	0.62	0.59	U	0.59	0.03	NA	IN
Acenaphthylene	0.66	U	0.66	0.63	U	0.63	0.03	NA	IN
Anthracene	0.68	U	0.68	0.65	U	0.65	0.03	NA	IN
Benz[a]anthracene	0.8	U	0.8	0.76	U	0.76	0.04	NA	IN
Benzo[b]fluoranthene	0.78	U	0.78	0.74	U	0.74	0.04	NA	IN
Benzo[k]fluoranthene	0.75	U	0.75	0.71	U	0.71	0.04	NA	IN
Benzo[g,h,i]perylene	0.83	U	0.83	0.79	U	0.79	0.04	NA	IN
Benzo[a]pyrene	0.79	U	0.79	0.75	U	0.75	0.04	NA	IN
Chrysene	0.83	U	0.83	0.79	U	0.79	0.04	NA	IN
Dibenz[a,h]anthracene	0.79	U	0.79	0.75	U	0.75	0.04	NA	IN
Fluoranthene	0.74	U	0.74	0.75	U	0.75	0.01	NA	IN
Fluorene	0.64	U	0.64	0.61	U	0.61	0.03	NA	IN
Indeno[1,2,3-cd]pyrene	0.73	U	0.73	0.69	U	0.69	0.04	NA	IN
1-Methylnaphthalene	0.6	U	0.6	0.57	U	0.57	0.03	NA	IN
2-Methylnaphthalene	0.61	U	0.61	0.58	U	0.58	0.03	NA	IN
Naphthalene	0.69	U	0.69	0.66	U	0.66	0.03	NA	IN
Phenanthrene	0.69	U	0.69	0.65	U	0.65	0.04	NA	IN
Pyrene	0.79	U	0.79	0.75	U	0.75	0.04	NA	IN

U) The analyte was not-detected in the sample. The numerical value will be used for comparison purposes.

U\* or B) The result was blank qualified. The numerical value will be used for comparison purposes.

NA) The RPD or Difference is not applicable.

1) Both results are > or = 5 X RL and RPD over acceptance limit, flag positive results "J".

2) At least one of the results is < 5 X RL and difference is over acceptance limit, flag positive results "J" and "not-detected" results "UJ".

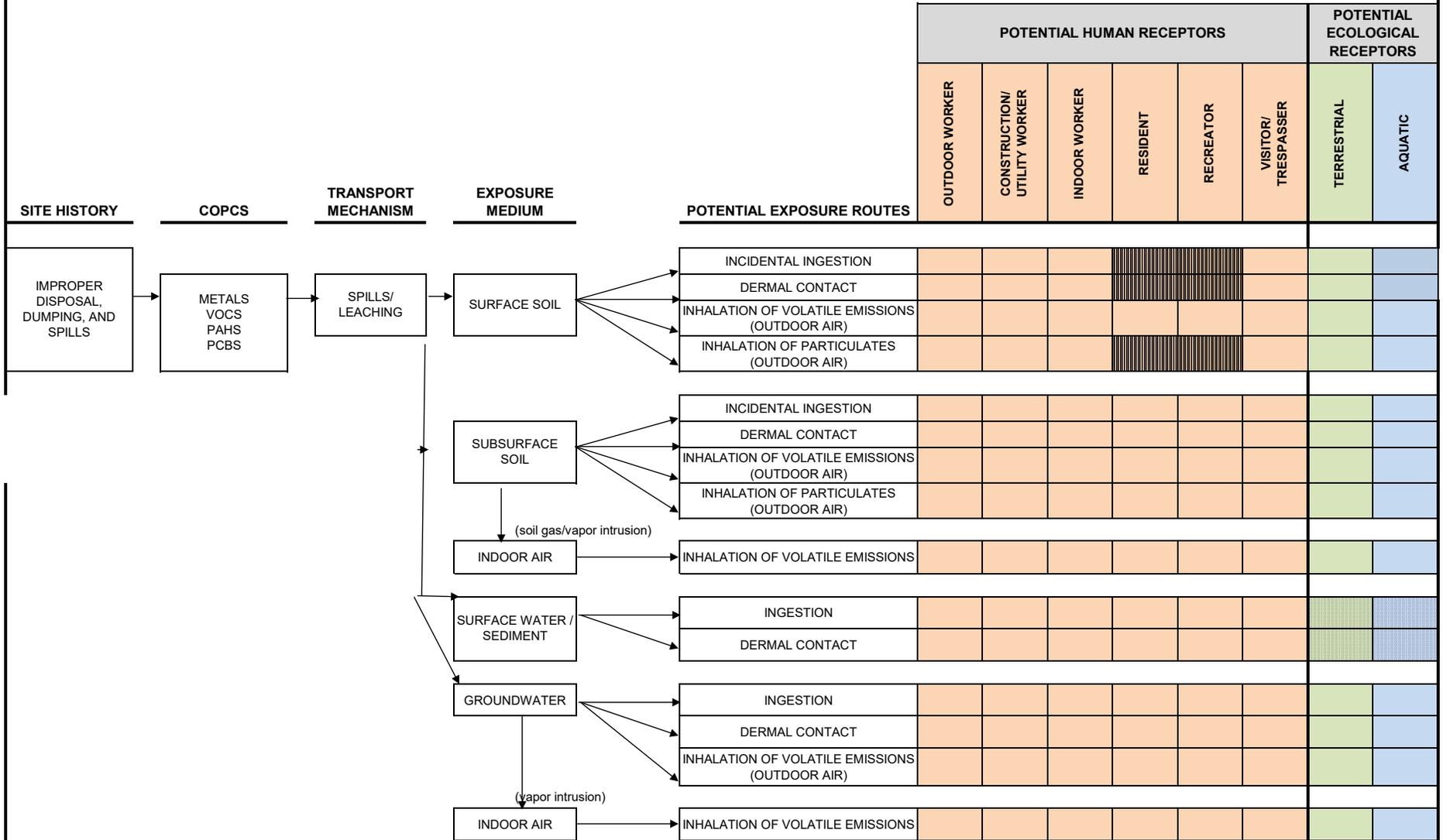
**Comments:**

IN = comparison was acceptable

**APPENDIX E**



**SAP CONCEPTUAL SITE MODEL  
WEST RIVER FORK TRAIL PROPERTY  
FAIRMONT WEST VIRGINIA**



Notes:

- empty box denotes incomplete pathway.
- indicates a potentially complete exposure pathway, but likely from an off-site source
- indicates a potentially complete exposure pathway, or complete but risk is very low.
- indicates a potentially complete exposure pathway, or complete but risk is very low.